

Homestake Mining Company of California 560 Anaconda Road, Route 605 North Milan, New Mexico 87021

September 6, 2019

Mr. Mark Purcell Superfund Division (6SF) U.S. Environmental Protection Agency - Region 6 1445 Ross Avenue, Suite 1200 Dallas, TX 75202

Re: Grants Reclamation Project
Arcadis Review of 2006 Background Evaluation

Dear Mark,

Homestake hereby submits the Arcadis U.S., Inc. Review of 2006 Background Evaluation Completed by Homestake Mining Company of California, Environmental Resources Group, and Hydro-Engineering for the Grants Reclamation Project, Grants, New Mexico.

If you have questions or comments, please contact me at (775) 397-7215 or dlattin@barrick.com.

Respectfully,

Daniel Lattin, P.E.

Project Evaluation Manager

Homestake Mining Company of California

MEMO



To:

Daniel Lattin

Barrick Gold of North America, Inc.

From:

Shannon Ulrich Jeffrey Gillow (Geosyntec) Matt Butcher

Date:

Arcadis Project No.:

September 5, 2019

30008273

Subject:

Review of 2006 Background Evaluation Completed by Homestake Mining Company of California (HMC), Environmental Resources Group, and Hydro-Engineering for the HMC Grants Reclamation Project, Grants, New Mexico Arcadis U.S., Inc. 6723 Towpath Road P.O. Box 66 Syracuse New York 13214-0066 Tel 315 446 9120 Fax 315 449 0017

This memorandum summarizes findings of a technical review regarding Groundwater Protection Standards (GWPSs) described in Correspondence from Alan D. Cox (HMC) to Paul Michalak (U.S. Nuclear Regulatory Commission) Re: Grants Millsite Reclamation Project – SUA-1 471 – Docket No. 40-8903 Tracking number – TAC LU0014 Aquifer Site Standards dated January 19, 2006 (ADAMS Accession No. ML060250273) and later approved in Correspondence from Gary Janosko (U.S. Nuclear Regulatory Commission) to Alan D. Cox (HMC) Re: Grants, New Mexico – License Amendment No. 39 to Materials License No. SUA-1471 (TAC LU0122) dated July 10, 2006 (ADAMS Accession No. ML061710354).

The purpose of the review was to assess whether statistical analyses used to establish background concentrations for five groundwater zones (Alluvial Aquifer, Chinle Mixing Zone, and Lower, Upper, and Middle Chinle Non-Mixing Zones) were appropriate and consistent with up-to-date software tools, methods, and guidance. Constituents for which site-specific background standards were calculated included uranium, molybdenum, sulfate, chloride, total dissolved solids (TDS), and nitrate.

The technical review was completed in four parts:

 Determine whether methods for outlier detection and treatment of nondetect values were appropriate.

- 2. Confirm distribution testing correctly identified datasets as normally or otherwise distributed or nonparametric.
- 3. Recalculate statistically based GWPS values using an independent software package, consistent with up-to-date United States Environmental Protection Agency (USEPA) guidance.
- 4. Compare GWPS values to the original calculations described in HMC's January 19, 2006 correspondence (HMC 2006) and elsewhere.

Results of the technical review are discussed in the remainder of this memorandum. Supporting tables, figures, raw data, and statistical calculations are attached.

BACKGROUND

Background assessments have been completed for the Grants Reclamation Site in Grants, New Mexico (Site) to establish GWPSs for select constituents in groundwater. In 2006, HMC developed GWPS values for five groundwater zones (Alluvial Aquifer, Chinle Mixing Zone, and Lower, Upper, and Middle Chinle Non-Mixing Zones) and ten constituents (selenium, uranium, molybdenum, sulfate, chloride, TDS, nitrate, vanadium, thorium-230, and the sum of radium-226 and radium-228). The GWPS was set based on either a statistically derived site-specific background value, an alternate federal protection standard, or another agreed-upon value (Table 1). GWPS values were subsequently approved by the Nuclear Regulatory Commission (NRC 2006) and USEPA and New Mexico Environment Department (USEPA 2006a).

The GWPS for each constituent in each zone is shown in Table 1. The table highlights the GWPS values that were based on a statistical evaluation: selenium, uranium, molybdenum, sulfate, chloride, TDS, and nitrate. It should be noted that GWPS values were established over time with rationale provided in separate reports and correspondences. In most cases, more than 60 discrete samples were collected across multiple wells in each groundwater zone over a more than 10-year span; often more than 100 samples were available and used in GWPS calculations. Table 2 summarizes the rationale for each GWPS and cites the source report where further information can be obtained.

The primary sources of information regarding the GWPS values include:

- 1989 Nuclear Regulatory Commission memorandum titled "Establishment of Ground-water Protection Standards" (NRC 1989)
- 2001 Hydro-Engineering report titled "Ground-Water Hydrology for Support of Background Concentrations at the Grants Reclamation Site" (Hydro-Engineering 2001)
- 2003 Environmental Resources Group (ERG) report titled "Statistical Evaluation of Chinle Aquifer Quality at the Homestake Site near Grants, NM" (ERG 2003)
- 2005 Correspondence from Alan D. Cox (HMC) to Gary Janosko (U.S. Nuclear Regulatory Commission) Re: Grants Millsite Reclamation Project (HMC 2005a)
- 2005 Correspondence from Alan D. Cox (HMC) to Jerry Schoeppner (NMED) Re: Grants reclamation project Homestake response to NMED 1/20/05 comments on proposed ground water background concentrations for HMC Grants Millsite (HMC 2005b)
- 2006 NRC License Amendment Technical Evaluation Report, Request to Amend License SUA-1471 Condition 35 (HMC 2006)
- 2006 License Amendment No. 39 to Materials License No. SUA-1471 (TAC LU0122) (NRC 2006)

METHODS

Additional software tools and calculation methods have been developed since GWPS values were established in 2006. These tools include USEPA's ProUCL software, version 5.1 (USEPA 2015), which provides alternate methods for handling censored datasets (i.e., datasets that contain nondetects) or datasets that do not conform to a normal distribution, and calculates upper tolerance limits (UTLs) based on alternate data distributions such as gamma distributions when applicable.

Dataset Definition

Data used in previous assessments were provided to Arcadis by ERG on August 12, 2016.¹ The wells used to derive GWPS values for each zone are listed in Table 3. Data from nine wells were used to derive GWPS values for the Alluvial Aquifer, 13 wells for the Chinle Mixing Zone, five wells for the Upper Chinle Non-Mixing Zone, six wells for the Middle Chinle Non-Mixing Zone, and six wells for the Lower Chinle Non-Mixing Zone.

Descriptive statistics for the aquifer units in the data provided by ERG were cross-checked with those reported in ERG's background assessment (ERG 2003). Descriptive statistics agreed with the ERG report and outliers identified in the background assessment were confirmed to be removed from the data provided by ERG. Raw data used in the statistical review of GWPS values are included in Attachment 1.

Treatment of Nondetects

Left-censored datasets (i.e., datasets with values reported at a detection limit or other reporting limit, i.e., nondetects) can introduce uncertainty into statistical analyses – including goodness-of-fit testing, outlier testing, and UTL estimation – particularly for datasets that contain more than 15% nondetect values. Arcadis reviewed the treatment of nondetects in the HMC (2006) background assessment compared to current recommended tools and methodology. In HMC's assessment, if the frequency of nondetects was less than 15%, the nondetect was replaced by the detection limit divided by two (referred to as "DL/2"). A parametric distribution analysis was then performed on the modified dataset. If the percentage of nondetects was greater than 15%, the distribution was considered nonparametric and a distribution analysis was not performed.

An alternative to the DL/2 substitution approach involves using Kaplan-Meier (KM) methods available in USEPA's ProUCL 5.1 (USEPA 2015) software. Arcadis evaluated the significance of the DL/2 substitution for nondetects used by HMC to determine if it could significantly influence data distribution test results and UTL calculations. For many datasets, the percentage of nondetects is greater than 15%; therefore, Arcadis performed data distribution tests and UTL calculations first using the DL/2 method (consistent with the HMC 2006 background report) and then using KM methods in ProUCL, and compared the results as discussed later in this memorandum.

Outlier Identification

"The Unified Guidance recommends that testing of outliers be performed on background data, but they generally not be removed unless some basis for a likely error or discrepancy can be identified.strategies that involve automated evaluation and removal of outliers may unwittingly eliminate the evidence of real and important changes to background conditions." (USEPA 2009)

¹ Electronic file transfer from Chuck Farr (ERG) to Timothy Negley (Arcadis). August 12, 2016.

Outlier tests can be conducted through many methods and identify values that are statistically inconsistent with an overall data distribution. An outlier may represent an erroneous measurement; however it may also represent a true value from a variable dataset (USEPA 2006b, 2009). It is important that an assessment does not exclude observations that truly represent the population of interest.

The previous work by ERG used an *a priori* screening test to eliminate outliers before the distribution analysis was performed (ERG 2003). The *a priori* test was applied to all data. An observation that was four or five times as large as the rest of the data was generally considered suspect (USEPA 2009). Conservatively, for this *a priori* test, outliers were defined as values (concentrations) greater than three times the next highest value (NRC 2006). If a data value failed the *a priori* test, it was removed from the dataset for subsequent statistical analyses.

Based on our review, Arcadis concurs that the *a priori* test is suitable and sufficient to identify the most extreme values in a dataset as potential outliers.

Box Plots

Arcadis constructed box-and-whisker plots (or boxplots) for each constituent in each groundwater zone (Attachment 2-6). A boxplot shows the 25th, 50th (median), and 75th percentiles, spread of the data, and extreme values. When data from multiple sampling areas or locations are presented side-by-side for the same constituent, this graphic can be used to determine if within-strata and between-strata locations are representative of the same background population. Boxplots can also be used to identify potential outliers based on their distance from the middle 50 percent of the data, as defined by the ends of the "box") in the following manner: based on the product of the interquartile range (IQR = 75th – 25th percentiles) and a multiplier (usually 1.5 or 3.0) added to the 75th percentile. Commonly, values that exceed the 75th percentile plus 1.5 times the IQR are considered moderate outliers, whereas values that exceed the 75th percentile plus 3.0 times the IQR are extreme outliers.

Data Distribution Testing

Data distribution testing is necessary to determine whether a statistically based background value can be derived using parametric or nonparametric methods. HMC (2006) utilized multiple lines of evidence to determine if a dataset was from a normal, lognormal, or gamma distribution, or should be treated as a nonparametric distribution. Methods to determine the distribution of the data included probability plots and a Shapiro-Wilk (n<50) or Shapiro-Francia (n>50) test, among others. Arcadis agrees with this approach, and the use of Shapiro-Wilk for datasets less than 50 and Shapiro-Francia for datasets greater than 50 is consistent with Unified Guidance (USEPA 2009). It should be noted that USEPA's ProUCL software uses the Shapiro-Wilk for datasets up to n = 2,000 and the Lilliefors test statistic, which also performs well for samples sizes of 50 or more (USEPA 2015). Additionally, USEPA (2015) provides methods for calculating UTLs for data that fit a gamma distribution.

Arcadis reviewed the data distribution testing in the HMC (2006) background assessment compared to current recommended tools and methodology. Arcadis repeated the data distribution testing using methods currently available in ProUCL 5.1, including the Shapiro-Wilk test and Lilliefors test statistic for normal/lognormal datasets, and the Kolmogorov Smirnov (KS) test for gamma distributed datasets. Data that did not pass any of these three tests were considered to be from a nonparametric distribution. Distribution testing results were compared to distribution results reported in HMC 2006 and were used in the UTL recalculation discussed below.

Upper Tolerance Limit Recalculation

Background threshold values (BTVs) for groundwater monitoring and compliance assessment are often represented by a one-sided UTL or an upper prediction limit (UPL) for the background population. Tolerance limits provide an interval within which at least a certain proportion of the population lies, with a specified probability that the stated interval does indeed "contain" that proportion of the population (USEPA 2006b, 2009). A 95/95 UTL indicates that 95% of the population is contained within the limit with 95% confidence. It should be noted that even within the background dataset, 5 percent of the dataset could be expected to exceed the UTL simply due to random chance. A typical decision tree for setting a BTV is provided in Table 4. The decision tree for selecting a UTL to represent the BTV is included in Table 5.

According to USEPA's Unified Guidance, "The UTL is an appropriate statistic when the intent is to compare data from unimpacted wells with data from potentially impacted wells" (Section 5 of USEPA 2009). As such, Arcadis reviewed the UTL calculations in the HMC (2006) background assessment and recalculated based on current recommended tools and methodology. Arcadis calculated UTLs considering the following items based on current methodologies and tools for calculating background values:

- Use of KM methods for nondetects (in place of DL/2 substitution)
- Influence of potential outliers identified using the IQR test
- Use of Shapiro-Wilk and Lilliefors test statistics for all datasets to test normality/lognormality
- Use of KS test statistic to identify gamma distributed datasets
- Calculation of gamma UTL for gamma distributed datasets

RESULTS AND DISCUSSION

Data Robustness

An overview of each dataset evaluated is shown as a boxplot provided as figures in Attachment 2 (Alluvial Aquifer), Attachment 3 (Chinle Mixing Zone), Attachment 4 (Upper Chinle Non-Mixing Zone), Attachment 5 (Middle Chinle Non-Mixing Zone), and Attachment 6 (Lower Chinle Non-Mixing Zone). Summary statistics for each well and for the pooled dataset are also shown below each plot. Figure numbers correspond to the attachment number and sequential figures contained therein (e.g., Figure 2.1 is the first figure in Attachment 2).

The boxplots illustrate that the datasets cover a range of variability both vertically by groundwater zones and horizontally across the Site. In addition, in most cases, more than 60 discrete samples were collected across multiple wells in each groundwater zone over a more than 10-year span; often more than 100 samples were available and used in GWPS calculations. Based on Arcadis' experience, the number of wells, samples, and duration of time covered by the dataset available is considerably robust compared to similar sites.

Upper Tolerance Limits

Arcadis agrees that a UTL is an appropriate statistic to use for setting GWPS values since it is the recommended method for comparison to background in USEPA guidance (USEPA 2009, 2015). A UTL bounds an upper percentile (e.g., 95th) of the distribution of background samples with a certain confidence (e.g., 95%); it may be compared to individual observations to determine if they are unlikely to be from the

background distribution of concentrations. Results of the data distribution testing and UTL recalculation are shown in Table 6 and Attachment 7. Data distribution testing confirmed data distributions reported in the 2006 assessment, except for five cases described below. These differences had slight impacts on the UTL:

- Molybdenum in the Chinle Mixing Zone was previously determined to be nonparametric, but ProUCL 5.1 determined the dataset to be normally distributed. Therefore, a normal UTL was calculated. The updated UTL decreased from 0.1 milligram per liter (mg/L) to 0.09 mg/L.
- TDS in the Middle Chinle Non-Mixing Zone was previously determined to be nonparametric, but ProUCL 5.1 determined the dataset to be normally distributed. Therefore, a normal UTL was calculated. The updated UTL increased from 1,560 mg/L to 1,688 mg/L.
- Sulfate in the Chinle Mixing Zone was previously determined to be nonparametric, but ProUCL 5.1 determined the dataset to be gamma distributed. Therefore, a gamma UTL was calculated. The resulting UTL increased from 1,750 mg/L to 1,995 mg/L.
- Sulfate in the Upper Chinle Non-Mixing Zone was previously determined to be normally distributed and confirmed as normally distributed by ProUCL 5.1. Therefore, a normal UTL was calculated. The updated UTL decreased from 914 mg/L to 904 mg/L. It appears that the previous UTL used a k factor of 1.975 to calculate a UTL rather than the k factor of 1.855 used in ProUCL 5.1. (Note, that the ProUCL 5.1 k value is consistent with the k value of 1.857 in Table 2.4 of Owen (1963) for n = 167 and 95% coverage.)
- Nitrate in the Chinle Mixing Zone was identified as nonparametric previously but was determined to be gamma distributed by ProUCL 5.1. The resulting UTL increased from 15.3 mg/L to 20.6 mg/L.

In general, recalculation of the parametric UTLs and the nonparametric 95th percentiles by ProUCL 5.1 resulted in slight increases from previous calculations.

SUMMARY AND RECOMMENDATIONS

The purpose of the review was to assess whether statistical analyses used to establish background concentrations for five groundwater zones (Alluvial, Chinle Mixing Zone, and Lower, Upper, and Middle Chinle Non-Mixing Zones) were appropriate and consistent with up-to-date software tools, methods, and guidance. Constituents included selenium, uranium, molybdenum, sulfate, chloride, TDS, and nitrate. The review focused on four main components: 1) determine whether methods for outlier detection and treatment of nondetect values were appropriate, 2) confirm that distribution testing correctly identified datasets as normally distributed or nonparametric, 3) recalculate statistically based GWPS values using USEPA's ProUCL version 5.1 software, and 4) compare GWPS values to the original calculations described in HMC 2006 and elsewhere.

The review resulted in several key findings:

- The dataset used to establish statistically based GWPS values is considerably robust with often more than 100 samples used in calculations across more than 10 years of sample collection.
- Outlier screening using the *a priori* test to establish GWPS values is reasonable for detecting the most extreme values.
- Data distributions were confirmed to be the same as previously reported except for the following:
 Molybdenum in the Chinle Mixing Zone and TDS in the Middle Chinle Non-Mixing Zone were

previously treated as nonparametric but were determined by ProUCL 5.1 to be normally distributed. Sulfate and nitrate in the Chinle Mixing Zone were previously treated as nonparametric but were determined by ProUCL 5.1 to be gamma distributed. Arcadis recommends using both Shapiro-Wilk and Lilliefors test statistics for normal datasets and the KS test statistic to identify gamma distributed datasets.

 Recalculated UTLs increased by 1.0% to 41.2%, except for two cases where UTLs decreased by 1.1% and 11.1% (sulfate in the Upper Chinle Non-Mixing Zone and molybdenum in the Chinle Mixing Zone, respectively).

In summary, the previous statistical background assessments completed on behalf of HMC for establishing GWPS values appear robust. An assessment of updated methods revealed that the previously calculated UTLs would experience only minor adjustments, including slightly increased GWPS values in all but two cases.

REFERENCES

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Table 1 Grants Reclamation Project Groundwater Protection Standards

| Constituents ^a | Alluvial | Chinle Mixing Zone | Upper Chinle Non-Mixing Zone | Middle Chinle Non-Mixing Zone | Lower Chinle Non-Mixing Zone |
|---------------------------|-------------------|-----------------------|---------------------------------|----------------------------------|---------------------------------|
| Selenium (mg/L) | 0.32 | 0.14 | 0.06 | 0.07 | 0.32 |
| Uranium (mg/L) | 0.16 | 0.18 | 0.09 | 0.07 | 0.03 ^b |
| Molybdenum (mg/L) | 0.1 ^b | 0.1 | 0.1 ^b | 0.1 ^b | 0.1 ^b |
| Sulfate (mg/L) | 1,500 | 1,750 | 914 | 857 | 2,000 |
| Chloride (mg/L) | 250 ^b | 250 ^b | 412 | 250 ^b | 634 |
| TDS (mg/L) | 2,734 | 3,140 | 2,010 | 1,560 | 4,140 |
| Nitrate (mg/L) | 12 | 15 | * | * | * |
| Vanadium (mg/L) | 0.02 ^b | 0.01 ^b | 0.01 ^b | * | * |
| Thorium-230 (pCi/L) | 0.3 | * | * | * | * |
| Ra-226 + Ra-228 (pCi/L) | 5 | * | * | * | * |

Abbreviations:

GWPS = groundwater protection standard

mg/L = milligram per liter

pCi/L = picoCurie per liter

Ra-226 + Ra-228 = radium-226 and radium-228

TDS = total dissolved solids

^a **Bold shaded** values indicate GWPS was based on a site-specific statistically based value.

^b GWPS based on non-statistical value.

^{*} Site standards were not proposed for the constituents in the indicated aquifer.

 Table 2
 Rationale for Each Groundwater Protection Standard

| Zone | Analyte | GWPS a | Source of GWPS value | Citation |
|---------------------|--------------------------|--------|---|-------------|
| | Selenium (mg/L) | 0.32 | 95th percentile (1995 – 2004) | HMC (2005a) |
| | Uranium (mg/L) | 0.16 | 95th percentile (1995 – 2004) | HMC (2005a) |
| | Molybdenum (mg/L) | 0.1 | USEPA established value as protective of human health and the environment for groundwater at Title I sites. See 40 CFR Part 192, Subpart A, Table 1. | HMC (2005b) |
| | Sulfate (mg/L) | 1500 | 95th percentile (1995 – 2004) | HMC (2005a) |
| | Chloride (mg/L) | 250 | Federal secondary drinking water standard | HMC (2005b) |
| Alluvial Aquifer | TDS (mg/L) | 2734 | 95th percentile (1995 – 2004) | HMC (2005a) |
| Aquilei | Nitrate (mg/L) | 12 | 95th percentile (1995 – 2004) | HMC (2005a) |
| | Vanadium (mg/L) | 0.02 | Same as originally approved by NRC in 1989 | HMC (2005b) |
| | Thorium-230 (pCi/L) | 0.3 | Same as originally approved by NRC in 1989 | HMC (2005b) |
| | Ra-226+Ra-228 (pCi/L) | 5 | Same as originally approved by NRC in 1989 | HMC (2005b) |
| | Selenium (mg/L) | 0.14 | Nonparametric 95th percentile | ERG (2003) |
| | Uranium (mg/L) | 0.18 | Nonparametric 95th percentile | ERG (2003) |
| | Molybdenum (mg/L) | 0.1 | Nonparametric 95th percentile | ERG (2003) |
| Chinle | Sulfate (mg/L) | 1750 | Nonparametric 95th percentile | ERG (2003) |
| Mixing Zone | Chloride (mg/L) | 250 | Federal secondary drinking water standard | HMC (2005b) |
| | TDS (mg/L) | 3140 | Nonparametric 95th percentile | ERG (2003) |
| | Nitrate (mg/L) | 15 | Nonparametric 95th percentile | ERG (2003) |
| | Vanadium (mg/L) | 0.01 | It appears to be the lower reporting limit (all samples were nondetect) from ERG 2003 (not confirmed). | ERG (2003) |
| | Thorium-230 (pCi/L) | | Site standards are not proposed for thorium-230, radium-226 plus radium-228, and molybdenum for | |
| | Ra-226+Ra-228 (pCi/L) | | the Chinle Mixing Zone based on criteria (i) and (ii) that NRC has established for excluding detected constituents in 10 CFR Part 40 Appendix A - Criterion 5B(3)(a). | HMC (2005b) |

Table 2 Rationale for Each Ground Water Protection Standard (Continued)

| Zone | Analyte | GWPS a | Source | Citation |
|--|--------------------------|--------|--|---------------------------|
| | Selenium (mg/L) | 0.06 | Nonparametric 95th percentile | ERG (2003) |
| | Uranium (mg/L) | 0.09 | Nonparametric 95th percentile | ERG (2003) |
| Upper Chinle Non- | Molybdenum (mg/L) | 0.1 | Site standards were not proposed for molybdenum, thorium-230, radium-226 plus radium-228, and nitrate for the Upper Chinle Non-Mixing Zone based on the exclusions provided in 10 CFR Part 40 Appendix A - Criterion 5B(3)(a)(i) and (ii). In 2006, NRC stated to use 0.1 for molybdenum in all Chinle zones. | HMC (2005b) HMC (2006) |
| Mixing | Sulfate (mg/L) | 914 | Nonparametric 95th percentile | ERG (2003) |
| Zone | Chloride (mg/L) | 412 | Nonparametric 95th percentile | ERG (2003) |
| | TDS (mg/L) | 2010 | Nonparametric 95th percentile | ERG (2003) |
| | Nitrate (mg/L) | | Site standards are not proposed for molybdenum, thorium-230, radium-226 plus radium-228, and nitrate for the Upper Chinle Non-Mixing Zone based on the exclusions provided in 10 CFR Part 40 Appendix A - Criterion 5B(3)(a)(i) and (ii). | HMC (2005b) |
| | Vanadium (mg/L) | 0.01 | It appears to be the lower reporting limit (all samples were nondetect) from ERG 2003 (not confirmed). | ERG (2003) |
| | Thorium-230 (pCi/L) | | Site standards are not proposed for molybdenum, thorium-230, radium-226 plus radium-228, and nitrate for the Upper Chinle Non-Mixing Zone based on the | HMC (2005b) |
| | Ra-226+Ra-228 (pCi/L) | | exclusions provided in 10 CFR Part 40 Appendix A - Criterion 5B(3)(a)(i) and (ii). | |
| | Selenium (mg/L) | 0.07 | Nonparametric 95th percentile | ERG (2003) |
| | Uranium (mg/L) | 0.07 | Nonparametric 95th percentile | ERG (2003) |
| Middle Chinle Non- Mixing Zone | Molybdenum (mg/L) | 0.1 | Site standards were not proposed for molybdenum, nitrate, vanadium, thorium-230, and radium-226 plus radium-228 for the Middle Chinle Non-Mixing Zone based on the exclusions provided in 10 CFR Part 40 Appendix A - Criterion 5B(3)(a)(i) and (ii). In 2006, NRC stated to use 0.1 for molybdenum in all Chinle zones. | HMC (2005b) HMC (2006) |
| | Sulfate (mg/L) | 857 | Nonparametric 95th percentile | ERG (2003) |
| | Chloride (mg/L) | 250 | Federal secondary drinking water standard | HMC (2005b) |
| | TDS (mg/L) | 1560 | Nonparametric 95th percentile | ERG (2003) |
| | Nitrate (mg/L) | | | |
| | Vanadium (mg/L) | | Site standards are not proposed for molybdenum, | |
| | Thorium-230 (pCi/L) | | nitrate, vanadium, thorium-230, and radium-226 plus radium-228 for the Middle Chinle Non-Mixing Zone based on the exclusions provided in 10 CFR Part 40 | HMC (2005b) |
| | Ra-226+Ra-228 (pCi/L) | | Appendix A - Criterion 5B(3)(a)(i) and (ii). | |

Table 2 Rationale for Each Ground Water Protection Standard (Continued)

| Zone | Lower Chinle Non-Mixing Zone | GWPS ^a | Source | Citation |
|------------------------|------------------------------------|-------------------|--|---------------------------|
| | Selenium (mg/L) | 0.32 | Nonparametric 95th percentile | ERG (2003) |
| | Uranium (mg/L) | 0.03 | Federal drinking water standard | HMC (2005b) |
| Lower Chinle | Molybdenum (mg/L) | 0.1 | Site standards were not proposed for molybdenum, nitrate, vanadium, thorium-230, and radium-226 plus radium-228 for the Lower Chinle Non-Mixing Zone based on the exclusions provided in 10 CFR Part 40 Appendix A - Criterion 5B3(3)(a)(i) and (ii). In 2006, NRC stated to use 0.1 for molybdenum in all Chinle zones. | HMC (2005b) HMC (2006) |
| Non- Mixing Zone | Sulfate (mg/L) | 2000 | Nonparametric 95th percentile | ERG (2003) |
| | Chloride (mg/L) | 634 | Nonparametric 95th percentile | ERG (2003) |
| | TDS (mg/L) | 4,140 | Nonparametric 95th percentile | ERG (2003) |
| | Nitrate (mg/L) | 1 | | |
| | Vanadium (mg/L) | 1 | Site standards are not proposed for molybdenum, | |
| | Thorium-230 (pCi/L) | | nitrate, vanadium, thorium-230, and radium-226 plus radium-228 for the Lower Chinle Non-Mixing Zone based on the exclusions provided in 10 CFR Part 40 Appendix A - Criterion 5B3(3)(a)(i) and (ii). | HMC (2005b) |
| | Ra-226+Ra-228 (pCi/L) | | | |

Abbreviations:

GWPS = groundwater protection standard

mg/L = milligram per liter

pCi/L = picoCurie per liter

Ra-226 + Ra-228 = radium-226 and radium-228

TDS = total dissolved solids

^a Groundwater Protection Standard values were obtained from Table 2 of HMC 2006.

Table 3 Wells Used To Derive Site Groundwater Protection Standards by Zone

| Zone | Well Count (n = 39) | Constituents | Wells | Source Report |
|----------------------------------|---------------------------|--|---|------------------|
| Alluvial Aquifer | 9 (near site wells) | Selenium, Uranium, Molybdenum, Vanadium, Ra- 226/-228, Thorium-230, Nitrate, TDS, Sulfate, Chloride | DD, ND, P, P1, P2, P3, P4, Q, and R | HMC (2005a) |
| Chinle Mixing Zone | 13 | Selenium, Uranium, Molybdenum, TDS, Sulfate, Nitrate, Chloride, Vanadium | CW9, CW10, CW15, CW17, CW24, CW35, CW36, CW37, CW39, CW43, CW50, CW52, and WR25 | ERG (2003) |
| Upper Chinle Non-Mixing Zone | 5 | Selenium, Uranium, Molybdenum, TDS, Sulfate, Chloride, Vanadium | 0931, 0934, CW3, CW13, and CW18 | ERG (2003) |
| Middle Chinle Non-Mixing Zone | 6 | Selenium, Uranium, Molybdenum, TDS, Sulfate, Chloride | ACW, CW1, CW2, CW14, CW28, and WCW | ERG (2003) |
| Lower Chinle Non-Mixing Zone | 6 | Selenium, Uranium, Molybdenum, TDS, Sulfate, Chloride | CW26, CW29, CW31, CW32, CW33, and CW41 | ERG (2003) |

Abbreviations:

Ra-226 + Ra-228 = radium-226 and radium-228

TDS = total dissolved solids

Table 4 Decision Tree for Background Threshold Values

| Sample Size | Censoring | Distribution ^a | Statistic Used for BTV ^b |
|-------------|-------------|---------------------------|-------------------------------------|
| All | %ND = 0% | NA | NA |
| All | Detects < 5 | NA | Maximum detection |
| n < 8 | All | NA | Maximum detection |
| n ≥ 8 | Detects ≥ 5 | N, G, LN, or neither | 95/95 UTL° |

^a Distribution assessed by goodness-of-fit tests based on detected values only conducted using ProUCL 5.1 at a 95% confidence level ($\alpha = 0.05$).

Distributions:

Normal (N): dataset follows a normal distribution, per the Shapiro-Wilk test.

Gamma (G): dataset follows an approximate gamma distribution, per the Kolmogorov-Smirnoff test.

Lognormal (LN): dataset follows a lognormal distribution, per the Shapiro-Wilk test.

Abbreviations:

95/95 UTL = one-sided upper 95 percent confidence limit for the 95th percentile

BTV = background threshold value

%ND = percent of dataset as nondetect

n = sample size

NA = not applicable

USEPA = United States Environmental Protection Agency

UTL = upper tolerance limit

^b Criteria for BTV selection based on USEPA 2015.

^c 95/95 UTL calculated in accordance with USEPA 2015 using ProUCL5.1.

Table 5 Decision Tree for 95/95 Upper Tolerance Limits

| Sample Size | Censoring | Distribution ^a | Skewness ^b | Statistic Used for UTL ^c | |
|-------------|--------------------------|---------------------------|-----------------------|--|--|
| All | Detects < 5 | NA | NA | NA | |
| n < 8 | All | NA | NA | NA | |
| | | N | | | |
| | | N and LN | NA | Normal 95/95 UTL | |
| | | N and LN and G | | | |
| | Detects ≥ 5 | LN | NA | Lognormal 95/95 UTL | |
| | %ND = 0 | G | NIA | Gamma 95/95 UTL Nonparametric 95/95 UTL ^d | |
| | | LN and G | - NA | | |
| n ≥ 8 | | not N, LN, or G | NA | | |
| | | N, LN, or G | NA | Kaplan-Meier 95/95 UTL | |
| | Detects ≥ 5 %ND < 50% | not N. I.N. or C. | Mild | Kaplan-Meier 95/95 UTL | |
| | | not N, LN, or G | Moderate to High | Nonparametric 95/95 UTL ^d | |
| | %ND > 50% | All | NA | Nonparametric 95/95 UTL ^d | |

Distributions:

Normal (N): dataset follows a normal distribution, per the Shapiro-Wilk test.

Gamma (G): dataset follows a gamma distribution, per the Kolmogorov-Smirnov test.

Lognormal (LN): dataset follows a lognormal distribution, per the Shapiro-Wilk test.

Nonparametric (NP): dataset does not follow any of the three distributions noted above.

Abbreviations:

95/95 UTL = one-sided upper 95% confidence limit for the 95th percentile

%ND = percent of dataset as nondetect

n = sample size

NA = not applicable

USEPA = United States Environmental Protection Agency

UTL = upper tolerance limit

^a Distribution assessed by goodness-of-fit tests based on detected values only conducted using ProUCL 5.1 at a 95% confidence level ($\alpha = 0.05$).

b Skewness estimated using the standard deviation of the log-transformed data (detects only) (σ). Datasets with σ ≤ 1.0 are considered mildly skewed; σ > 1.0 is considered moderately to highly skewed (USEPA 2015).

^c Statistics calculated with ProUCL Version 5.1.

d Nonparametric UTL is based on a rank-ordered value (e.g., maximum detection or second highest detection) that achieves the coverage and confidence coefficient for a given sample size. The ranks are unlikely to match these parameters exactly. Values presented are based on ranks from Table A-5 of Conover (1999), which correspond to minimum sample sizes needed to achieve the specified parameters. ProUCL selects the rank-ordered value that most closely matches the parameters, even if the rank yields a lower coverage or confidence coefficient.

Table 6 Comparison of Summary Statistics between HMC 2006 and Arcadis 2016 Results

| Parameter | | | G | OF | | UTLa | | Descriptive Statistics | | | | |
|------------|----------|-------|------|--------|-------|-------|--------|------------------------|-------|-------|-----|------|
| (mg/L) | Zone | GWPS | нмс | AUS | нмс | AUS | Δ | Min | Max | Mean | N | %ND |
| | Alluvial | 0.16 | NP | NP | 0.16 | 0.174 | +8.0% | 0.0035 | 0.188 | 0.047 | 124 | 0 |
| Uranium | Upper | 0.09 | NP | NP | 0.09 | 0.124 | +27.4% | 0.0007 | 0.36 | 0.031 | 166 | 15.7 |
| Oranium | Middle | 0.07 | NP | NP | 0.07 | 0.076 | +7.9% | 0.0034 | 0.14 | 0.019 | 190 | 40.0 |
| | Mixing | 0.18 | NP | NP | 0.18 | 0.201 | +10.4% | 0.002 | 0.23 | 0.065 | 96 | 2.1 |
| | Alluvial | 0.32 | NP | NP | 0.32 | 0.429 | +25.4% | 0.010 | 0.58 | 0.180 | 124 | 0 |
| | Upper | 0.06 | NP | NP | 0.06 | 0.102 | +41.2% | < 0.001 | 0.24 | 0.017 | 165 | 44.8 |
| Selenium | Middle | 0.07 | NP | NP | 0.07 | 0.09 | +22.2% | < 0.001 | 0.22 | 0.016 | 192 | 35.9 |
| | Lower | 0.32 | NP | NP | 0.32 | 0.337 | +5.0% | < 0.005 | 0.36 | 0.066 | 59 | 27.1 |
| | Mixing | 0.14 | NP | NP | 0.14 | 0.157 | +10.8% | < 0.001 | 0.52 | 0.048 | 96 | 13.5 |
| Molybdenum | Mixing | 0.10 | NP | NPb | 0.10 | 0.09 | -11.1% | < 0.010 | 0.13 | 0.030 | 67 | 65.7 |
| | Alluvial | 2,734 | NP | NP | 2,734 | 2,950 | +7.3% | 954 | 3,054 | 1,995 | 124 | 0 |
| Total | Upper | 2,010 | NP | NP | 2,010 | 2,130 | +5.6% | 920 | 2,160 | 1,613 | 166 | 0 |
| Dissolved | Middle | 1,560 | NP | Norm | 1,560 | 1,688 | +7.6% | 560 | 1,970 | 1,273 | 187 | 0 |
| Solids | Lower | 4,140 | NP | NP | 4,140 | 4,180 | +1.0% | 805 | 4,180 | 2,181 | 58 | 0 |
| | Mixing | 3,140 | NP | NP | 3,140 | 3,200 | +1.9% | 976 | 3,217 | 1,935 | 94 | 0 |
| | Alluvial | 1,500 | NP | NP | 1,500 | 1,683 | +10.9% | 335 | 1,790 | 1,075 | 124 | 0 |
| | Upper | 914 | Norm | Norm | 914 | 903.9 | -1.1% | 535 | 998 | 747 | 167 | 0 |
| Sulfate | Middle | 857 | NP | NP | 857 | 896 | +4.4% | 319 | 1,430 | 654 | 192 | 0 |
| | Lower | 2,000 | NP | NP | 2,000 | 2,080 | +3.8% | 284 | 2,140 | 991 | 60 | 0 |
| | Mixing | 1,750 | NP | G | 1,750 | 1,959 | +10.7% | 409 | 1,880 | 1,028 | 96 | 0 |
| Nitrate | Alluvial | 12.0 | NP | NP | 12 | 15 | +20.0% | 0.44 | 16.4 | 8.40 | 87 | 0 |
| INILIALE | Mixing | 15.0 | NP | G (KM) | 15 | 20.6 | +27.2% | < 0.100 | 21.8 | 3.87 | 58 | 20.7 |
| Chloride | Upper | 250 | NP | NP | 412 | 489 | +15.7% | 21 | 540 | 142 | 127 | 0 |
| Cilionae | Lower | 634 | NP | NP | 634 | 657 | +3.5% | 46 | 657 | 204 | 28 | 0 |

Abbreviations:

Δ= percent increase (+) or decrease (-) in UTL recalculated in ProUCL 5.1 compared to GWPS proposed in HMC 2006. Blue shading indicates a UTL lower than the GWPS proposed in 2006.

%ND = percent nondetect

AUS = Árcadis U.S., Inc.

G = gamma distributed

GOF = goodness-of-fit test results for data distribution

GWPS = groundwater protection standard

HMC = Homestake Mining Company of California

KM = Kaplan-Meier

Max = maximum value in the dataset

mg/L = milligram per liter

Min = minimum value in the dataset

N = number of samples

NA = not applicable

Norm = normally distributed

NP =nonparametric

UTL = 95/95 upper tolerance limit

^a Values obtained from HMC 2006. The 95/95 UTL was calculated using ProUCL 5.1. Nonparametric UTLs from HMC are based on the 95th percentile of the dataset.

b Unified guidance recommends nonparametric methods when nondetect data exceed 50% of the dataset (USEPA 2009).

ATTACHMENT 1 Raw Data

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|----------|---------|---------------|----------|---------------|-------|----------|
| Alluvial | DD | 10/10/1995 | Selenium | 0.017 | mg/L | 1 |
| Alluvial | DD | 10/10/1995 | Sulfate | 1651 | mg/L | 1 |
| Alluvial | DD | 10/10/1995 | TDS | 3054 | mg/L | 1 |
| Alluvial | DD | 10/10/1995 | Uranium | 0.163 | mg/L | 1 |
| Alluvial | DD | 10/10/1996 | Selenium | 0.021 | mg/L | 1 |
| Alluvial | DD | 10/10/1996 | Sulfate | 1683 | mg/L | 1 |
| Alluvial | DD | 10/10/1996 | TDS | 3050 | mg/L | 1 |
| Alluvial | DD | 10/10/1996 | Uranium | 0.162 | mg/L | 1 |
| Alluvial | DD | 4/14/1997 | Nitrate | 6.95 | mg/L | 1 |
| Alluvial | DD | 4/14/1997 | Selenium | 0.018 | mg/L | 1 |
| Alluvial | DD | 4/14/1997 | Sulfate | 1683 | mg/L | 1 |
| Alluvial | DD | 4/14/1997 | TDS | 3010 | mg/L | 1 |
| Alluvial | DD | 4/14/1997 | Uranium | 0.188 | mg/L | 1 |
| Alluvial | DD | 9/9/1997 | Nitrate | 5.1 | mg/L | 1 |
| Alluvial | DD | 9/9/1997 | Selenium | 0.023 | mg/L | 1 |
| Alluvial | DD | 9/9/1997 | Sulfate | 1710 | mg/L | 1 |
| Alluvial | DD | 9/9/1997 | TDS | 2950 | mg/L | 1 |
| Alluvial | DD | 9/9/1997 | Uranium | 0.147 | mg/L | 1 |
| Alluvial | DD | 4/1/1998 | Nitrate | 5.14 | mg/L | 1 |
| Alluvial | DD | 4/1/1998 | Selenium | 0.031 | mg/L | 1 |
| Alluvial | DD | 4/1/1998 | Sulfate | 1790 | mg/L | 1 |
| Alluvial | DD | 4/1/1998 | TDS | 2930 | mg/L | 1 |
| Alluvial | DD | 4/1/1998 | Uranium | 0.175 | mg/L | 1 |
| Alluvial | DD | 4/20/1999 | Nitrate | 4.26 | mg/L | 1 |
| Alluvial | DD | 4/20/1999 | Selenium | 0.026 | mg/L | 1 |
| Alluvial | DD | 4/20/1999 | Sulfate | 1540 | mg/L | 1 |
| Alluvial | DD | 4/20/1999 | TDS | 2870 | mg/L | 1 |
| Alluvial | DD | 4/20/1999 | Uranium | 0.161 | mg/L | 1 |
| Alluvial | DD | 4/6/2000 | Nitrate | 3.35 | mg/L | 1 |
| Alluvial | DD | 4/6/2000 | Selenium | 0.01 | mg/L | 1 |
| Alluvial | DD | 4/6/2000 | Sulfate | 1420 | mg/L | 1 |
| Alluvial | DD | 4/6/2000 | TDS | 2740 | mg/L | 1 |
| Alluvial | DD | 4/6/2000 | Uranium | 0.165 | mg/L | 1 |
| Alluvial | DD | 5/14/2002 | Nitrate | 3.73 | mg/L | 1 |
| Alluvial | DD | 5/14/2002 | Selenium | 0.035 | mg/L | 1 |
| Alluvial | DD | 5/14/2002 | Sulfate | 1500 | mg/L | 1 |
| Alluvial | DD | 5/14/2002 | TDS | 2680 | mg/L | 1 |
| Alluvial | DD | 5/14/2002 | Uranium | 0.178 | mg/L | 1 |
| Alluvial | DD | 6/3/2003 | Nitrate | 3.5 | mg/L | 1 |
| Alluvial | DD | 6/3/2003 | Selenium | 0.029 | mg/L | 1 |
| Alluvial | DD | 6/3/2003 | Sulfate | 1460 | mg/L | 1 |
| Alluvial | DD | 6/3/2003 | TDS | 2680 | mg/L | 1 |
| Alluvial | DD | 6/3/2003 | Uranium | 0.168 | mg/L | 1 |
| Alluvial | DD | 5/18/2004 | Nitrate | 3.74 | mg/L | 1 |
| Alluvial | DD | 5/18/2004 | Selenium | 0.03 | mg/L | 1 |
| Alluvial | DD | 5/18/2004 | Sulfate | 1500 | mg/L | 1 |
| Alluvial | DD | 5/18/2004 | TDS | 2710 | mg/L | 1 |
| Alluvial | DD | 5/18/2004 | Uranium | 0.1737 | mg/L | 1 |
| Alluvial | ND | 8/22/1995 | Selenium | 0.042 | mg/L | 1 |
| Alluvial | ND | 8/22/1995 | Sulfate | 340 | mg/L | 1 |
| Alluvial | ND | 8/22/1995 | TDS | 954 | mg/L | 1 |
| Alluvial | ND | 8/22/1995 | Uranium | 0.038 | mg/L | 1 |
| Alluvial | ND | 7/29/1996 | Selenium | 0.05 | mg/L | 1 |
| Alluvial | ND | 7/29/1996 | Sulfate | 335 | mg/L | 1 |
| Alluvial | ND | 7/29/1996 | TDS | 1057 | mg/L | 1 |
| Alluvial | ND | 7/29/1996 | Uranium | 0.0529 | mg/L | 1 |
| Alluvial | ND | 8/11/1997 | Nitrate | 0.44 | mg/L | 1 |
| Alluvial | ND | 8/11/1997 | Selenium | 0.04 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|----------------------|---------|----------------------|---------------------|-----------------|--------------|----------|
| Alluvial | ND | 8/11/1997 | Sulfate | 362 | mg/L | 1 |
| Alluvial | ND | 8/11/1997 | TDS | 1070 | mg/L | 1 |
| Alluvial | ND | 8/11/1997 | Uranium | 0.056 | mg/L | 1 |
| Alluvial | ND | 8/5/1998 | Nitrate | 0.59 | mg/L | 1 |
| Alluvial | ND | 8/5/1998 | Selenium | 0.044 | mg/L | 1 |
| Alluvial | ND | 8/5/1998 | Sulfate | 363 | mg/L | 1 |
| Alluvial | ND | 8/5/1998 | TDS | 1060 | mg/L | 1 |
| Alluvial | ND | 8/5/1998 | Uranium | 0.0723 | mg/L | 1 |
| Alluvial | ND | 8/18/1999 | Nitrate | 1.14 | mg/L | 1 |
| Alluvial | ND | 8/18/1999 | Selenium | 0.071 | mg/L | 1 |
| Alluvial | ND | 8/18/1999 | Sulfate | 440 | mg/L | 1 |
| Alluvial | ND | 8/18/1999 | TDS | 1130 | mg/L | 1 |
| Alluvial | ND | 8/18/1999 | Uranium | 0.052 | mg/L | 1 |
| Alluvial | ND | 8/2/2000 | Nitrate | 1.26 | mg/L | 1 |
| Alluvial | ND | 8/2/2000 | Selenium | 0.088 | mg/L | 1 |
| Alluvial | ND | 8/2/2000 | Sulfate | 526 | mg/L | 1 |
| Alluvial | ND | 8/2/2000 | TDS | 1290 | mg/L | 1 |
| Alluvial | ND | 8/2/2000 | Uranium | 0.025 | mg/L | 1 |
| Alluvial | ND | 5/14/2002 | Nitrate | 1.39 | mg/L | 1 |
| Alluvial | ND | 5/14/2002 | Selenium | 0.109 | mg/L | 1 |
| Alluvial | ND | 5/14/2002 | Sulfate | 664 | mg/L | 1 |
| Alluvial | ND | 5/14/2002 | TDS | 1480 | mg/L | 1 |
| Alluvial | ND | 5/14/2002 | Uranium | 0.028 | mg/L | 1 |
| Alluvial | ND | 5/22/2003 | Nitrate | 1.4 | mg/L | 1 |
| Alluvial | ND | 5/22/2003 | Selenium | 0.144 | mg/L | 1 |
| Alluvial | ND | 5/22/2003 | Sulfate | 729 | mg/L | 1 |
| Alluvial | ND | 5/22/2003 | TDS | 1530 | mg/L | 1 |
| Alluvial | ND | 5/22/2003 | Uranium | 0.0303 | mg/L | 1 |
| Alluvial | ND | 5/18/2004 | Nitrate | 1.39 | mg/L | 1 |
| Alluvial | ND | 5/18/2004 | Selenium | 0.128 | mg/L | 1 |
| Alluvial | ND | 5/18/2004 | Sulfate | 907 | mg/L | 1 |
| Alluvial | ND | 5/18/2004 | TDS | 1770 | mg/L | 1 |
| Alluvial | ND | 5/18/2004 | Uranium | 0.0275 | mg/L | 1 |
| Alluvial | P | 3/16/1995 | Selenium | 0.0273 | mg/L | 1 |
| Alluvial | P | 3/16/1995 | Sulfate | 843 | mg/L | 1 |
| Alluvial | P | 3/16/1995 | TDS | 1680 | mg/L | 1 |
| Alluvial | Р | 3/16/1995 | Uranium | 0.047 | mg/L | 1 |
| Alluvial | P | 6/6/1995 | Selenium | 0.047 | mg/L | 1 |
| Alluvial | Р | 6/6/1995 | Sulfate | 885 | | 1 |
| | P | | TDS | 1729 | mg/L | + |
| Alluvial Alluvial | P | 6/6/1995 6/6/1995 | Uranium | 0.0636 | mg/L mg/L | 1 1 |
| | P | 9/5/1995 | Selenium | 0.0636 | | 1 |
| Alluvial Alluvial | P | 9/5/1995 | Selenium | 885 | mg/L | 1 |
| Alluvial | P | 9/5/1995 | TDS | 1681 | mg/L | 1 |
| Alluvial | P | 9/5/1995 | Uranium | 0.054 | mg/L | 1 |
| | P | 12/5/1995 | | 0.054 | mg/L | 1 |
| Alluvial Alluvial | P | 12/5/1995 | Selenium Sulfate | 846 | mg/L | 1 |
| | P | | TDS | 1698 | mg/L | 1 |
| Alluvial | P | 12/5/1995 | | | mg/L | + |
| Alluvial Alluvial | P | 12/5/1995 | Uranium | 0.0493 0.051 | mg/L | 1 |
| | P | 3/11/1996 | Selenium | | mg/L | 1 |
| Alluvial | P | 3/11/1996 | Sulfate | 1001 | mg/L | 1 |
| Alluvial | P | 3/11/1996 | TDS | 1628 | mg/L | 1 |
| Alluvial | | 3/11/1996 | Uranium | 0.046 | mg/L | 1 |
| Alluvial | Р | 6/3/1996 | Selenium | 0.055 | mg/L | 1 |
| Alluvial | Р | 6/3/1996 | Sulfate | 865 | mg/L | 1 |
| Alluvial | Р | 6/3/1996 | TDS | 1669 | mg/L | 1 |
| Alluvial | Р | 6/3/1996 | Uranium | 0.056 | mg/L | 1 |
| Alluvial | Р | 9/17/1996 | Selenium | 0.077 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|----------|----------|------------------------|----------------|---------------|-------|----------|
| Alluvial | Р | 9/17/1996 | Sulfate | 865 | mg/L | 1 |
| Alluvial | Р | 9/17/1996 | TDS | 1720 | mg/L | 1 |
| Alluvial | Р | 9/17/1996 | Uranium | 0.0393 | mg/L | 1 |
| Alluvial | Р | 10/10/1996 | Selenium | 0.065 | mg/L | 1 |
| Alluvial | Р | 10/10/1996 | Sulfate | 833 | mg/L | 1 |
| Alluvial | Р | 10/10/1996 | TDS | 1680 | mg/L | 1 |
| Alluvial | Р | 10/10/1996 | Uranium | 0.0652 | mg/L | 1 |
| Alluvial | Р | 3/6/1997 | Nitrate | 3.04 | mg/L | 1 |
| Alluvial | Р | 3/6/1997 | Selenium | 0.063 | mg/L | 1 |
| Alluvial | Р | 3/6/1997 | Sulfate | 867 | mg/L | 1 |
| Alluvial | Р | 3/6/1997 | TDS | 1670 | mg/L | 1 |
| Alluvial | Р | 3/6/1997 | Uranium | 0.044 | mg/L | 1 |
| Alluvial | Р | 5/27/1997 | Nitrate | 2.85 | mg/L | 1 |
| Alluvial | Р | 5/27/1997 | Selenium | 0.059 | mg/L | 1 |
| Alluvial | Р | 5/27/1997 | Sulfate | 919 | mg/L | 1 |
| Alluvial | Р | 5/27/1997 | TDS | 1680 | mg/L | 1 |
| Alluvial | Р | 5/27/1997 | Uranium | 0.045 | mg/L | 1 |
| Alluvial | Р | 9/9/1997 | Nitrate | 1.16 | mg/L | 1 |
| Alluvial | Р | 9/9/1997 | Selenium | 0.026 | mg/L | 1 |
| Alluvial | Р | 9/9/1997 | Sulfate | 835 | mg/L | 1 |
| Alluvial | Р | 9/9/1997 | TDS | 1560 | mg/L | 1 |
| Alluvial | Р | 9/9/1997 | Uranium | 0.04 | mg/L | 1 |
| Alluvial | Р | 11/3/1997 | Nitrate | 3.26 | mg/L | 1 |
| Alluvial | Р | 11/3/1997 | Selenium | 0.061 | mg/L | 1 |
| Alluvial | Р | 11/3/1997 | Sulfate | 835 | mg/L | 1 |
| Alluvial | Р | 11/3/1997 | TDS | 1660 | mg/L | 1 |
| Alluvial | Р | 11/3/1997 | Uranium | 0.051 | mg/L | 1 |
| Alluvial | Р | 3/4/1998 | Nitrate | 3.49 | mg/L | 1 |
| Alluvial | Р | 3/4/1998 | Selenium | 0.082 | mg/L | 1 |
| Alluvial | Р | 3/4/1998 | Sulfate | 873 | mg/L | 1 |
| Alluvial | Р | 3/4/1998 | TDS | 1700 | mg/L | 1 |
| Alluvial | Р | 3/4/1998 | Uranium | 0.0511 | mg/L | 1 |
| Alluvial | Р | 5/5/1998 | Nitrate | 9.23 | mg/L | 1 |
| Alluvial | Р | 5/5/1998 | Selenium | 0.182 | mg/L | 1 |
| Alluvial | Р | 5/5/1998 | Sulfate | 984 | mg/L | 1 |
| Alluvial | Р | 5/5/1998 | TDS | 1870 | mg/L | 1 |
| Alluvial | Р | 5/5/1998 | Uranium | 0.0344 | mg/L | 1 |
| Alluvial | Р | 9/16/1998 | Nitrate | 10.8 | mg/L | 1 |
| Alluvial | Р | 9/16/1998 | Selenium | 0.196 | mg/L | 1 |
| Alluvial | Р | 9/16/1998 | Sulfate | 980 | mg/L | 1 |
| Alluvial | Р | 9/16/1998 | TDS | 1890 | mg/L | 1 |
| Alluvial | Р | 9/16/1998 | Uranium | 0.0409 | mg/L | 1 |
| Alluvial | Р | 11/12/1998 | Nitrate | 8.8 | mg/L | 1 |
| Alluvial | Р | 11/12/1998 | Selenium | 0.164 | mg/L | 1 |
| Alluvial | Р | 11/12/1998 | Sulfate | 986 | mg/L | 1 |
| Alluvial | P | 11/12/1998 | TDS | 1860 | mg/L | 1 |
| Alluvial | Р | 11/12/1998 | Uranium | 0.032 | mg/L | 1 |
| Alluvial | Р | 3/2/1999 | Nitrate | 8.08 | mg/L | 1 |
| Alluvial | Р | 3/2/1999 | Selenium | 0.139 | mg/L | 1 |
| Alluvial | Р | 3/2/1999 | Sulfate | 1030 | mg/L | 1 |
| Alluvial | Р | 3/2/1999 | TDS | 1830 | mg/L | 1 |
| Alluvial | Р | 3/2/1999 | Uranium | 0.035 | mg/L | 1 |
| Alluvial | P P | 5/10/1999 | Nitrate | 7.45 | mg/L | 1 |
| Alluvial | P | 5/10/1999 | Selenium | 0.155 | mg/L | 1 |
| Alluvial | P | 5/10/1999 5/10/1999 | Sulfate TDS | 917 1790 | mg/L | 1 |
| Alluvial | P | | | 0.0324 | mg/L | 1 |
| Alluvial | P | 5/10/1999 | Uranium | | mg/L | 1 |
| Alluvial | <u> </u> | 9/15/1999 | Nitrate | 9.65 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|----------|---------|---------------|----------|---------------|-------|----------|
| Alluvial | Р | 9/15/1999 | Selenium | 0.189 | mg/L | 1 |
| Alluvial | Р | 9/15/1999 | Sulfate | 964 | mg/L | 1 |
| Alluvial | Р | 9/15/1999 | TDS | 1840 | mg/L | 1 |
| Alluvial | Р | 9/15/1999 | Uranium | 0.0358 | mg/L | 1 |
| Alluvial | Р | 11/4/1999 | Nitrate | 8.88 | mg/L | 1 |
| Alluvial | Р | 11/4/1999 | Selenium | 0.174 | mg/L | 1 |
| Alluvial | Р | 11/4/1999 | Sulfate | 938 | mg/L | 1 |
| Alluvial | Р | 11/4/1999 | TDS | 1800 | mg/L | 1 |
| Alluvial | Р | 11/4/1999 | Uranium | 0.0322 | mg/L | 1 |
| Alluvial | Р | 1/11/2000 | Nitrate | 9.25 | mg/L | 1 |
| Alluvial | Р | 1/11/2000 | Selenium | 0.16 | mg/L | 1 |
| Alluvial | Р | 1/11/2000 | Sulfate | 962 | mg/L | 1 |
| Alluvial | Р | 1/11/2000 | TDS | 1800 | mg/L | 1 |
| Alluvial | Р | 1/11/2000 | Uranium | 0.035 | mg/L | 1 |
| Alluvial | Р | 3/7/2000 | Nitrate | 8.84 | mg/L | 1 |
| Alluvial | Р | 3/7/2000 | Selenium | 0.043 | mg/L | 1 |
| Alluvial | Р | 3/7/2000 | Sulfate | 916 | mg/L | 1 |
| Alluvial | Р | 3/7/2000 | TDS | 1820 | mg/L | 1 |
| Alluvial | Р | 3/7/2000 | Uranium | 0.0109 | mg/L | 1 |
| Alluvial | Р | 5/9/2000 | Nitrate | 7.77 | mg/L | 1 |
| Alluvial | Р | 5/9/2000 | Selenium | 0.1325 | mg/L | 1 |
| Alluvial | Р | 5/9/2000 | Sulfate | 858 | mg/L | 1 |
| Alluvial | Р | 5/9/2000 | TDS | 1800 | mg/L | 1 |
| Alluvial | Р | 5/9/2000 | Uranium | 0.05221 | mg/L | 1 |
| Alluvial | Р | 8/31/2000 | Nitrate | 5.08 | mg/L | 1 |
| Alluvial | Р | 8/31/2000 | Selenium | 0.09 | mg/L | 1 |
| Alluvial | Р | 8/31/2000 | Sulfate | 851 | mg/L | 1 |
| Alluvial | Р | 8/31/2000 | TDS | 1760 | mg/L | 1 |
| Alluvial | Р | 8/31/2000 | Uranium | 0.0351 | mg/L | 1 |
| Alluvial | Р | 11/28/2000 | Nitrate | 6.85 | mg/L | 1 |
| Alluvial | Р | 11/28/2000 | Selenium | 0.137 | mg/L | 1 |
| Alluvial | Р | 11/28/2000 | Sulfate | 910 | mg/L | 1 |
| Alluvial | Р | 11/28/2000 | TDS | 1790 | mg/L | 1 |
| Alluvial | Р | 11/28/2000 | Uranium | 0.02851 | mg/L | 1 |
| Alluvial | Р | 7/23/2001 | Nitrate | 8.4 | mg/L | 1 |
| Alluvial | Р | 7/23/2001 | Selenium | 0.17 | mg/L | 1 |
| Alluvial | Р | 7/23/2001 | Sulfate | 983 | mg/L | 1 |
| Alluvial | Р | 7/23/2001 | TDS | 1870 | mg/L | 1 |
| Alluvial | Р | 7/23/2001 | Uranium | 0.03 | mg/L | 1 |
| Alluvial | Р | 7/15/2002 | Nitrate | 8 | mg/L | 1 |
| Alluvial | Р | 7/15/2002 | Selenium | 0.179 | mg/L | 1 |
| Alluvial | Р | 7/15/2002 | Sulfate | 1010 | mg/L | 1 |
| Alluvial | Р | 7/15/2002 | TDS | 1950 | mg/L | 1 |
| Alluvial | Р | 7/15/2002 | Uranium | 0.027 | mg/L | 1 |
| Alluvial | Р | 7/15/2003 | Nitrate | 7 | mg/L | 1 |
| Alluvial | Р | 7/15/2003 | Selenium | 0.167 | mg/L | 1 |
| Alluvial | Р | 7/15/2003 | Sulfate | 1070 | mg/L | 1 |
| Alluvial | Р | 7/15/2003 | TDS | 1860 | mg/L | 1 |
| Alluvial | Р | 7/15/2003 | Uranium | 0.027 | mg/L | 1 |
| Alluvial | Р | 7/7/2004 | Nitrate | 7.22 | mg/L | 1 |
| Alluvial | Р | 7/7/2004 | Selenium | 0.18 | mg/L | 1 |
| Alluvial | Р | 7/7/2004 | Sulfate | 1130 | mg/L | 1 |
| Alluvial | Р | 7/7/2004 | TDS | 1940 | mg/L | 1 |
| Alluvial | Р | 7/7/2004 | Uranium | 0.0325 | mg/L | 1 |
| Alluvial | P1 | 1/4/1995 | Selenium | 0.238 | mg/L | 1 |
| Alluvial | P1 | 1/4/1995 | Sulfate | 1108 | mg/L | 1 |
| Alluvial | P1 | 1/4/1995 | TDS | 2088 | mg/L | 1 |
| Alluvial | P1 | 1/4/1995 | Uranium | 0.026 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|----------------------|----------|------------------------|----------------|---------------|--------------|----------|
| Alluvial | P1 | 4/12/1995 | Selenium | 0.167 | mg/L | 1 |
| Alluvial | P1 | 4/12/1995 | Sulfate | 1093 | mg/L | 1 |
| Alluvial | P1 | 4/12/1995 | TDS | 2104 | mg/L | 1 |
| Alluvial | P1 | 4/12/1995 | Uranium | 0.032 | mg/L | 1 |
| Alluvial | P1 | 7/6/1995 | Selenium | 0.294 | mg/L | 1 |
| Alluvial | P1 | 7/6/1995 | Sulfate | 1069 | mg/L | 1 |
| Alluvial | P1 | 7/6/1995 | TDS | 2072 | mg/L | 1 |
| Alluvial | P1 | 7/6/1995 | Uranium | 0.0383 | mg/L | 1 |
| Alluvial | P1 | 10/3/1995 | Selenium | 0.214 | mg/L | 1 |
| Alluvial | P1 | 10/3/1995 | Sulfate | 1108 | mg/L | 1 |
| Alluvial | P1 | 10/3/1995 | TDS | 2083 | mg/L | 1 |
| Alluvial | P1 | 10/3/1995 | Uranium | 0.03 | mg/L | 1 |
| Alluvial | P1 | 1/10/1996 | Selenium | 0.22 | mg/L | 1 |
| Alluvial | P1 | 1/10/1996 | Sulfate | 1112 | mg/L | 1 |
| Alluvial | P1 | 1/10/1996 | TDS | 2113 | mg/L | 1 |
| Alluvial | P1 | 1/10/1996 | Uranium | 0.031 | mg/L | 1 |
| Alluvial | P1 | 4/9/1996 | Selenium | 0.246 | mg/L | 1 |
| Alluvial | P1 | 4/9/1996 | Sulfate | 1151 | mg/L | 1 |
| Alluvial | P1 | 4/9/1996 | TDS | 2072 | mg/L | 1 |
| Alluvial | P1 | 4/9/1996 | Uranium | 0.033 | mg/L | 1 |
| Alluvial | P1 | 7/19/1996 | Selenium | 0.194 | mg/L | 1 |
| Alluvial | P1 | 7/19/1996 | Sulfate | 1150 | mg/L | 1 |
| Alluvial | P1 | 7/19/1996 | TDS | 2187 | mg/L | 1 |
| Alluvial | P1 | 7/19/1996 | Uranium | 0.028 | mg/L | 1 |
| Alluvial | P1 | 11/4/1996 | Selenium | 0.241 | mg/L | 1 |
| Alluvial | P1 | 11/4/1996 | Sulfate | 1125 | mg/L | 1 |
| Alluvial | P1 | 11/4/1996 | TDS | 2090 | mg/L | 1 |
| Alluvial | P1 P1 | 11/4/1996 | Uranium | 0.0308 | mg/L | 1 |
| Alluvial | | 1/13/1997 | Nitrate | 12.8 | mg/L | 1 |
| Alluvial | P1 | 1/13/1997 | Selenium | 0.237 1160 | mg/L | 1 |
| Alluvial Alluvial | P1 P1 | 1/13/1997 1/13/1997 | Sulfate TDS | 2030 | mg/L mg/L | 1 |
| Alluvial | P1 | 1/13/1997 | Uranium | 0.024 | mg/L | 1 |
| Alluvial | P1 | 4/14/1997 | Nitrate | 13.1 | mg/L | 1 |
| Alluvial | P1 | 4/14/1997 | Selenium | 0.215 | mg/L | 1 |
| Alluvial | P1 | 4/14/1997 | Sulfate | 1184 | mg/L | 1 |
| Alluvial | P1 | 4/14/1997 | TDS | 2120 | mg/L | 1 |
| Alluvial | P1 | 4/14/1997 | Uranium | 0.029 | mg/L | 1 |
| Alluvial | P1 | 7/8/1997 | Nitrate | 12.2 | mg/L | 1 |
| Alluvial | P1 | 7/8/1997 | Selenium | 0.232 | mg/L | 1 |
| Alluvial | P1 | 7/8/1997 | Sulfate | 1197 | mg/L | 1 |
| Alluvial | P1 | 7/8/1997 | TDS | 2100 | mg/L | 1 |
| Alluvial | P1 | 7/8/1997 | Uranium | 0.036 | mg/L | 1 |
| Alluvial | P1 | 11/3/1997 | Nitrate | 12.3 | mg/L | 1 |
| Alluvial | P1 | 11/3/1997 | Selenium | 0.225 | mg/L | 1 |
| Alluvial | P1 | 11/3/1997 | Sulfate | 1100 | mg/L | 1 |
| Alluvial | P1 | 11/3/1997 | TDS | 2090 | mg/L | 1 |
| Alluvial | P1 | 11/3/1997 | Uranium | 0.031 | mg/L | 1 |
| Alluvial | P1 | 1/19/1998 | Nitrate | 12.1 | mg/L | 1 |
| Alluvial | P1 | 1/19/1998 | Selenium | 0.243 | mg/L | 1 |
| Alluvial | P1 | 1/19/1998 | Sulfate | 1150 | mg/L | 1 |
| Alluvial | P1 | 1/19/1998 | TDS | 2130 | mg/L | 1 |
| Alluvial | P1 | 1/19/1998 | Uranium | 0.035 | mg/L | 1 |
| Alluvial | P1 | 4/1/1998 | Nitrate | 11.6 | mg/L | 1 |
| Alluvial | P1 | 4/1/1998 | Selenium | 0.242 | mg/L | 1 |
| Alluvial | P1 | 4/1/1998 | Sulfate | 1300 | mg/L | 1 |
| Alluvial | P1 | 4/1/1998 | TDS | 2140 | mg/L | 1 |
| Alluvial | P1 | 4/1/1998 | Uranium | 0.0297 | mg/L | 1 |
| t | • | | | | | • |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|----------|---------|---------------|----------|---------------|-------|----------|
| Alluvial | P1 | 7/14/1998 | Nitrate | 11 | mg/L | 1 |
| Alluvial | P1 | 7/14/1998 | Selenium | 0.252 | mg/L | 1 |
| Alluvial | P1 | 7/14/1998 | Sulfate | 1200 | mg/L | 1 |
| Alluvial | P1 | 7/14/1998 | TDS | 2210 | mg/L | 1 |
| Alluvial | P1 | 7/14/1998 | Uranium | 0.0416 | mg/L | 1 |
| Alluvial | P1 | 10/28/1998 | Nitrate | 11.8 | mg/L | 1 |
| Alluvial | P1 | 10/28/1998 | Selenium | 0.24 | mg/L | 1 |
| Alluvial | P1 | 10/28/1998 | Sulfate | 1100 | mg/L | 1 |
| Alluvial | P1 | 10/28/1998 | TDS | 2110 | mg/L | 1 |
| Alluvial | P1 | 10/28/1998 | Uranium | 0.041 | mg/L | 1 |
| Alluvial | P1 | 1/21/1999 | Nitrate | 10.5 | mg/L | 1 |
| Alluvial | P1 | 1/21/1999 | Selenium | 0.224 | mg/L | 1 |
| Alluvial | P1 | 1/21/1999 | Sulfate | 1150 | mg/L | 1 |
| Alluvial | P1 | 1/21/1999 | TDS | 2150 | mg/L | 1 |
| Alluvial | P1 | 1/21/1999 | Uranium | 0.0366 | mg/L | 1 |
| Alluvial | P2 | 2/3/1995 | Selenium | 0.294 | mg/L | 1 |
| Alluvial | P2 | 2/3/1995 | Sulfate | 1112 | mg/L | 1 |
| Alluvial | P2 | 2/3/1995 | TDS | 2092 | mg/L | 1 |
| Alluvial | P2 | 2/3/1995 | Uranium | 0.027 | mg/L | 1 |
| Alluvial | P2 | 5/5/1995 | Selenium | 0.244 | mg/L | 1 |
| Alluvial | P2 | 5/5/1995 | Sulfate | 1101 | mg/L | 1 |
| Alluvial | P2 | 5/5/1995 | TDS | 2101 | mg/L | 1 |
| Alluvial | P2 | 5/5/1995 | Uranium | 0.025 | mg/L | 1 |
| Alluvial | P2 | 8/2/1995 | Selenium | 0.244 | mg/L | 1 |
| Alluvial | P2 | 8/2/1995 | Sulfate | 1140 | mg/L | 1 |
| Alluvial | P2 | 8/2/1995 | TDS | 2108 | mg/L | 1 |
| Alluvial | P2 | 8/2/1995 | Uranium | 0.025 | mg/L | 1 |
| Alluvial | P2 | 11/6/1995 | Selenium | 0.264 | mg/L | 1 |
| Alluvial | P2 | 11/6/1995 | Sulfate | 1115 | mg/L | 1 |
| Alluvial | P2 | 11/6/1995 | TDS | 2065 | mg/L | 1 |
| Alluvial | P2 | 11/6/1995 | Uranium | 0.029 | mg/L | 1 |
| Alluvial | P2 | 2/12/1996 | Selenium | 0.221 | mg/L | 1 |
| Alluvial | P2 | 2/12/1996 | Sulfate | 1126 | mg/L | 1 |
| Alluvial | P2 | 2/12/1996 | TDS | 2083 | mg/L | 1 |
| Alluvial | P2 | 2/12/1996 | Uranium | 0.033 | mg/L | 1 |
| Alluvial | P2 | 5/14/1996 | Selenium | 0.232 | mg/L | 1 |
| Alluvial | P2 | 5/14/1996 | Sulfate | 1140 | mg/L | 1 |
| Alluvial | P2 | 5/14/1996 | TDS | 2082 | mg/L | 1 |
| Alluvial | P2 | 5/14/1996 | Uranium | 0.027 | mg/L | 1 |
| Alluvial | P2 | 7/29/1996 | Selenium | 0.236 | mg/L | 1 |
| Alluvial | P2 | 7/29/1996 | Sulfate | 1161 | mg/L | 1 |
| Alluvial | P2 | 7/29/1996 | TDS | 2110 | mg/L | 1 |
| Alluvial | P2 | 7/29/1996 | Uranium | 0.0316 | mg/L | 1 |
| Alluvial | P2 | 2/3/1997 | Nitrate | 15.5 | mg/L | 1 |
| Alluvial | P2 | 2/3/1997 | Selenium | 0.194 | mg/L | 1 |
| Alluvial | P2 | 2/3/1997 | Sulfate | 1163 | mg/L | 1 |
| Alluvial | P2 | 2/3/1997 | TDS | 2050 | mg/L | 1 |
| Alluvial | P2 | 2/3/1997 | Uranium | 0.035 | mg/L | 1 |
| Alluvial | P2 | 4/29/1997 | Nitrate | 13.3 | mg/L | 1 |
| Alluvial | P2 | 4/29/1997 | Selenium | 0.233 | mg/L | 1 |
| Alluvial | P2 | 4/29/1997 | Sulfate | 1149 | mg/L | 1 |
| Alluvial | P2 | 4/29/1997 | TDS | 2070 | mg/L | 1 |
| Alluvial | P2 | 4/29/1997 | Uranium | 0.029 | mg/L | 1 |
| Alluvial | P2 | 7/28/1997 | Selenium | 0.276 | mg/L | 1 |
| Alluvial | P2 | 7/28/1997 | Sulfate | 1200 | mg/L | 1 |
| Alluvial | P2 | 7/28/1997 | TDS | 2050 | mg/L | 1 |
| Alluvial | P2 | 7/28/1997 | Uranium | 0.027 | mg/L | 1 |
| Alluvial | P2 | 10/13/1997 | Nitrate | 10.4 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|----------|---------|------------------------|----------|---------------|-------|----------|
| Alluvial | P2 | 10/13/1997 | Selenium | 0.217 | mg/L | 1 |
| Alluvial | P2 | 10/13/1997 | Sulfate | 1250 | mg/L | 1 |
| Alluvial | P2 | 10/13/1997 | TDS | 2070 | mg/L | 1 |
| Alluvial | P2 | 10/13/1997 | Uranium | 0.026 | mg/L | 1 |
| Alluvial | P2 | 2/10/1998 | Nitrate | 12.4 | mg/L | 1 |
| Alluvial | P2 | 2/10/1998 | Selenium | 0.3 | mg/L | 1 |
| Alluvial | P2 | 2/10/1998 | Sulfate | 1070 | mg/L | 1 |
| Alluvial | P2 | 2/10/1998 | TDS | 2080 | mg/L | 1 |
| Alluvial | P2 | 2/10/1998 | Uranium | 0.0274 | mg/L | 1 |
| Alluvial | P2 | 5/5/1998 | Nitrate | 11.6 | mg/L | 1 |
| Alluvial | P2 | 5/5/1998 | Selenium | 0.21 | mg/L | 1 |
| Alluvial | P2 | 5/5/1998 | Sulfate | 1100 | mg/L | 1 |
| Alluvial | P2 | 5/5/1998 | TDS | 2060 | mg/L | 1 |
| Alluvial | P2 | 5/5/1998 | Uranium | 0.0286 | mg/L | 1 |
| Alluvial | P2 | 8/4/1998 | Nitrate | 10.6 | mg/L | 1 |
| Alluvial | P2 | 8/4/1998 | Selenium | 0.209 | mg/L | 1 |
| Alluvial | P2 | 8/4/1998 | Sulfate | 1130 | mg/L | 1 |
| Alluvial | P2 | 8/4/1998 | TDS | 2090 | mg/L | 1 |
| Alluvial | P2 | 8/4/1998 | Uranium | 0.0432 | mg/L | 1 |
| Alluvial | P2 | 10/28/1998 | Nitrate | 11.4 | mg/L | 1 |
| Alluvial | P2 | 10/28/1998 | Selenium | 0.236 | mg/L | 1 |
| Alluvial | P2 | 10/28/1998 | Sulfate | 1030 | mg/L | 1 |
| Alluvial | P2 | 10/28/1998 | TDS | 2000 | | 1 |
| | P2 | | Uranium | 0.0494 | mg/L | 1 |
| Alluvial | P2 | 10/28/1998 2/3/1999 | Nitrate | 10.4 | mg/L | |
| Alluvial | | | | | mg/L | 1 |
| Alluvial | P2 | 2/3/1999 | Selenium | 0.194 | mg/L | 1 |
| Alluvial | P2 | 2/3/1999 | Sulfate | 1100 | mg/L | 1 |
| Alluvial | P2 | 2/3/1999 | TDS | 2000 | mg/L | 1 |
| Alluvial | P2 | 2/3/1999 | Uranium | 0.0451 | mg/L | 1 |
| Alluvial | P2 | 5/11/1999 | Nitrate | 10.6 | mg/L | 1 |
| Alluvial | P2 | 5/11/1999 | Selenium | 0.194 | mg/L | 1 |
| Alluvial | P2 | 5/11/1999 | Sulfate | 1050 | mg/L | 1 |
| Alluvial | P2 | 5/11/1999 | TDS | 2070 | mg/L | 1 |
| Alluvial | P2 | 5/11/1999 | Uranium | 0.037 | mg/L | 1 |
| Alluvial | P2 | 8/18/1999 | Nitrate | 11.7 | mg/L | 1 |
| Alluvial | P2 | 8/18/1999 | Selenium | 0.212 | mg/L | 1 |
| Alluvial | P2 | 8/18/1999 | Sulfate | 1120 | mg/L | 1 |
| Alluvial | P2 | 8/18/1999 | TDS | 2040 | mg/L | 1 |
| Alluvial | P2 | 8/18/1999 | Uranium | 0.0384 | mg/L | 1 |
| Alluvial | P2 | 11/2/1999 | Nitrate | 12.6 | mg/L | 1 |
| Alluvial | P2 | 11/2/1999 | Selenium | 0.2 | mg/L | 1 |
| Alluvial | P2 | 11/2/1999 | Sulfate | 1090 | mg/L | 1 |
| Alluvial | P2 | 11/2/1999 | TDS | 2050 | mg/L | 1 |
| Alluvial | P2 | 11/2/1999 | Uranium | 0.036 | mg/L | 1 |
| Alluvial | P2 | 2/9/2000 | Nitrate | 8.3 | mg/L | 1 |
| Alluvial | P2 | 2/9/2000 | Selenium | 0.205 | mg/L | 1 |
| Alluvial | P2 | 2/9/2000 | Sulfate | 1060 | mg/L | 1 |
| Alluvial | P2 | 2/9/2000 | TDS | 1970 | mg/L | 1 |
| Alluvial | P2 | 2/9/2000 | Uranium | 0.0336 | mg/L | 1 |
| Alluvial | P2 | 5/9/2000 | Nitrate | 11 | mg/L | 1 |
| Alluvial | P2 | 5/9/2000 | Selenium | 0.1852 | mg/L | 1 |
| Alluvial | P2 | 5/9/2000 | Sulfate | 1020 | mg/L | 1 |
| Alluvial | P2 | 5/9/2000 | TDS | 2080 | mg/L | 1 |
| Alluvial | P2 | 5/9/2000 | Uranium | 0.03186 | mg/L | 1 |
| Alluvial | P2 | 8/2/2000 | Nitrate | 9.07 | mg/L | 1 |
| Alluvial | P2 | 8/2/2000 | Selenium | 0.182 | mg/L | 1 |
| Alluvial | P2 | 8/2/2000 | Sulfate | 1030 | mg/L | 1 |
| Alluvial | P2 | 8/2/2000 | TDS | 2020 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|----------|---------|---------------|----------|---------------|-------|----------|
| Alluvial | P2 | 8/2/2000 | Uranium | 0.032 | mg/L | 1 |
| Alluvial | P2 | 11/28/2000 | Nitrate | 12.1 | mg/L | 1 |
| Alluvial | P2 | 11/28/2000 | Selenium | 0.227 | mg/L | 1 |
| Alluvial | P2 | 11/28/2000 | Sulfate | 1070 | mg/L | 1 |
| Alluvial | P2 | 11/28/2000 | TDS | 2100 | mg/L | 1 |
| Alluvial | P2 | 11/28/2000 | Uranium | 0.0317 | mg/L | 1 |
| Alluvial | P2 | 4/23/2003 | Nitrate | 9.4 | mg/L | 1 |
| Alluvial | P2 | 4/23/2003 | Selenium | 0.28 | mg/L | 1 |
| Alluvial | P2 | 4/23/2003 | Sulfate | 1270 | mg/L | 1 |
| Alluvial | P2 | 4/23/2003 | TDS | 2210 | mg/L | 1 |
| Alluvial | P2 | 4/23/2003 | Uranium | 0.0386 | mg/L | 1 |
| Alluvial | P2 | 2/16/2004 | Nitrate | 11.3 | mg/L | 1 |
| Alluvial | P2 | 2/16/2004 | Selenium | 0.243 | mg/L | 1 |
| Alluvial | P2 | 2/16/2004 | Sulfate | 1260 | mg/L | 1 |
| Alluvial | P2 | 2/16/2004 | TDS | 2210 | mg/L | 1 |
| Alluvial | P2 | 2/16/2004 | Uranium | 0.0401 | mg/L | 1 |
| Alluvial | P3 | 4/23/1998 | Nitrate | 7.28 | mg/L | 1 |
| Alluvial | P3 | 4/23/1998 | Selenium | 0.173 | mg/L | 1 |
| Alluvial | P3 | 4/23/1998 | Sulfate | 975 | mg/L | 1 |
| Alluvial | P3 | 4/23/1998 | TDS | 1900 | mg/L | 1 |
| Alluvial | P3 | 4/23/1998 | Uranium | 0.024 | mg/L | 1 |
| Alluvial | P3 | 3/7/2000 | Nitrate | 10.1 | mg/L | 1 |
| Alluvial | P3 | 3/7/2000 | Selenium | 0.065 | mg/L | 1 |
| Alluvial | P3 | 3/7/2000 | Sulfate | 1030 | mg/L | 1 |
| Alluvial | P3 | 3/7/2000 | TDS | 1960 | mg/L | 1 |
| Alluvial | P3 | 3/7/2000 | Uranium | 0.0113 | mg/L | 1 |
| Alluvial | P3 | 3/8/2001 | Nitrate | 9.92 | mg/L | 1 |
| Alluvial | P3 | 3/8/2001 | Selenium | 0.161 | mg/L | 1 |
| Alluvial | P3 | 3/8/2001 | Sulfate | 1070 | mg/L | 1 |
| Alluvial | P3 | 3/8/2001 | TDS | 1760 | mg/L | 1 |
| Alluvial | P3 | 3/8/2001 | Uranium | 0.02942 | mg/L | 1 |
| Alluvial | P3 | 3/9/2004 | Nitrate | 11 | mg/L | 1 |
| Alluvial | P3 | 3/9/2004 | Selenium | 0.237 | mg/L | 1 |
| Alluvial | P3 | 3/9/2004 | Sulfate | 1230 | mg/L | 1 |
| Alluvial | P3 | 3/9/2004 | TDS | 2220 | mg/L | 1 |
| Alluvial | P3 | 3/9/2004 | Uranium | 0.0398 | mg/L | 1 |
| Alluvial | P4 | 4/24/1998 | Nitrate | 3.13 | mg/L | 1 |
| Alluvial | P4 | 4/24/1998 | Selenium | 0.104 | mg/L | 1 |
| Alluvial | P4 | 4/24/1998 | Sulfate | 885 | mg/L | 1 |
| Alluvial | P4 | 4/24/1998 | TDS | 1610 | mg/L | 1 |
| Alluvial | P4 | 4/24/1998 | Uranium | 0.022 | mg/L | 1 |
| Alluvial | P4 | 3/7/2000 | Nitrate | 4.41 | mg/L | 1 |
| Alluvial | P4 | 3/7/2000 | Selenium | 0.088 | mg/L | 1 |
| Alluvial | P4 | 3/7/2000 | Sulfate | 803 | mg/L | 1 |
| Alluvial | P4 | 3/7/2000 | TDS | 1500 | mg/L | 1 |
| Alluvial | P4 | 3/7/2000 | Uranium | 0.0035 | mg/L | 1 |
| Alluvial | P4 | 3/8/2001 | Nitrate | 4.48 | mg/L | 1 |
| Alluvial | P4 | 3/8/2001 | Selenium | 0.1095 | mg/L | 1 |
| Alluvial | P4 | 3/8/2001 | Sulfate | 848 | mg/L | 1 |
| Alluvial | P4 | 3/8/2001 | TDS | 1360 | mg/L | 1 |
| Alluvial | P4 | 3/8/2001 | Uranium | 0.02362 | mg/L | 1 |
| Alluvial | P4 | 4/4/2002 | Nitrate | 4.64 | mg/L | 1 |
| Alluvial | P4 | 4/4/2002 | Selenium | 0.111 | mg/L | 1 |
| Alluvial | P4 | 4/4/2002 | Sulfate | 836 | mg/L | 1 |
| Alluvial | P4 | 4/4/2002 | TDS | 1530 | mg/L | 1 |
| Alluvial | P4 | 4/4/2002 | Uranium | 0.0242 | mg/L | 1 |
| Alluvial | P4 | 4/23/2003 | Nitrate | 4.9 | mg/L | 1 |
| Alluvial | P4 | 4/23/2003 | Selenium | 0.142 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|----------|---------|------------------------|---------------------|---------------|--------------|----------|
| Alluvial | P4 | 4/23/2003 | Sulfate | 838 | mg/L | 1 |
| Alluvial | P4 | 4/23/2003 | TDS | 1470 | mg/L | 1 |
| Alluvial | P4 | 4/23/2003 | Uranium | 0.0913 | mg/L | 1 |
| Alluvial | Q | 3/16/1995 | Selenium | 0.096 | mg/L | 1 |
| Alluvial | Q | 3/16/1995 | Sulfate | 1098 | mg/L | 1 |
| Alluvial | Q | 3/16/1995 | TDS | 2068 | mg/L | 1 |
| Alluvial | Q | 3/16/1995 | Uranium | 0.046 | mg/L | 1 |
| Alluvial | Q | 9/5/1995 | Selenium | 0.155 | mg/L | 1 |
| Alluvial | Q | 9/5/1995 | Sulfate | 1103 | mg/L | 1 |
| Alluvial | Q | 9/5/1995 | TDS | 2015 | mg/L | 1 |
| Alluvial | Q | 9/5/1995 | Uranium | 0.052 | mg/L | 1 |
| Alluvial | Q | 3/11/1996 | Selenium | 0.201 | mg/L | 1 |
| Alluvial | Q | 3/11/1996 | Sulfate | 1366 | mg/L | 1 |
| Alluvial | Q | 3/11/1996 | TDS | 2070 | mg/L | 1 |
| Alluvial | Q | 3/11/1996 | Uranium | 0.046 | mg/L | 1 |
| Alluvial | Q | 9/17/1996 | Selenium | 0.294 | mg/L | 1 |
| Alluvial | Q | 9/17/1996 | Sulfate | 1105 | mg/L | 1 |
| Alluvial | Q | 9/17/1996 | TDS | 2086 | mg/L | 1 |
| Alluvial | Q | 9/17/1996 | Uranium | 0.0413 | mg/L | 1 |
| Alluvial | Q | 3/6/1997 | Nitrate | 8.16 | mg/L | 1 |
| Alluvial | Q | 3/6/1997 | Selenium | 0.197 | mg/L | 1 |
| Alluvial | Q | 3/6/1997 | Sulfate | 1146 | mg/L | 1 |
| Alluvial | Q | 3/6/1997 | TDS | 2090 | mg/L | 1 |
| Alluvial | Q | 3/6/1997 | Uranium | 0.051 | mg/L | 1 |
| Alluvial | Q | 9/9/1997 | Nitrate | 13.5 | mg/L | 1 |
| Alluvial | Q | 9/9/1997 | Selenium | 0.207 | mg/L | 1 |
| Alluvial | Q | 9/9/1997 | Sulfate | 1250 | mg/L | 1 |
| Alluvial | Q | 9/9/1997 | TDS | 2140 | mg/L | 1 |
| Alluvial | Q | 9/9/1997 | Uranium | 0.043 | mg/L | 1 |
| Alluvial | Q | 3/4/1998 | Nitrate | 8.4 | mg/L | 1 |
| Alluvial | Q | 3/4/1998 | Selenium | 0.2 | mg/L | 1 |
| Alluvial | Q | 3/4/1998 | Sulfate | 1160 | mg/L | 1 |
| Alluvial | Q | 3/4/1998 | TDS | 2120 | | 1 |
| Alluvial | Q | 3/4/1998 | Uranium | 0.0538 | mg/L mg/L | 1 |
| Alluvial | Q | 3/2/1999 | Nitrate | 9.34 | mg/L | 1 |
| Alluvial | Q | 3/2/1999 | Selenium | 0.21 | mg/L | 1 |
| Alluvial | Q | 3/2/1999 | Sulfate | 1270 | mg/L | 1 |
| Alluvial | Q | 3/2/1999 | TDS | 2250 | mg/L | 1 |
| Alluvial | Q | 3/2/1999 | | 0.0588 | - | 1 |
| Alluvial | | | Uranium | | mg/L | + |
| Alluvial | Q Q | 1/12/2000 1/12/2000 | Nitrate Selenium | 10.2 0.22 | mg/L mg/L | 1 |
| Alluvial | Q | 1/12/2000 | Selenium | 1200 | mg/L | 1 |
| Alluvial | Q | 1/12/2000 | TDS | 2200 | mg/L | 1 |
| Alluvial | Q | 1/12/2000 | Uranium | 0.056 | _ | 1 |
| Alluvial | Q | 3/14/2000 | Nitrate | 9.64 | mg/L | 1 |
| | Q | 3/14/2000 | | 9.64 0.242 | mg/L | 1 |
| Alluvial | | 3/14/2000 | Selenium Sulfate | 1070 | mg/L | 1 |
| Alluvial | Q | | TDS | | mg/L | |
| Alluvial | Q | 3/14/2000 | | 2250 | mg/L | 1 |
| Alluvial | Q | 3/14/2000 | Uranium | 0.0565 | mg/L | 1 |
| Alluvial | Q | 5/14/2002 | Nitrate | 10 | mg/L | 1 |
| Alluvial | Q | 5/14/2002 | Selenium | 0.263 | mg/L | 1 |
| Alluvial | Q | 5/14/2002 | Sulfate | 1330 | mg/L | 1 |
| Alluvial | Q | 5/14/2002 | TDS | 2310 | mg/L | 1 |
| Alluvial | Q | 5/14/2002 | Uranium | 0.0521 | mg/L | 1 |
| Alluvial | Q | 5/15/2003 | Nitrate | 9.4 | mg/L | 1 |
| Alluvial | Q | 5/15/2003 | Selenium | 0.297 | mg/L | 1 |
| Alluvial | Q | 5/15/2003 | Sulfate | 1390 | mg/L | 1 |
| Alluvial | Q | 5/15/2003 | TDS | 2340 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|----------|---------|---------------|----------|---------------|-------|----------|
| Alluvial | Q | 5/15/2003 | Uranium | 0.0532 | mg/L | 1 |
| Alluvial | Q | 5/18/2004 | Nitrate | 9.72 | mg/L | 1 |
| Alluvial | Q | 5/18/2004 | Selenium | 0.256 | mg/L | 1 |
| Alluvial | Q | 5/18/2004 | Sulfate | 1340 | mg/L | 1 |
| Alluvial | Q | 5/18/2004 | TDS | 2350 | mg/L | 1 |
| Alluvial | Q | 5/18/2004 | Uranium | 0.0528 | mg/L | 1 |
| Alluvial | R | 6/6/1995 | Selenium | 0.22 | mg/L | 1 |
| Alluvial | R | 6/6/1995 | Sulfate | 1007 | mg/L | 1 |
| Alluvial | R | 6/6/1995 | TDS | 1862 | mg/L | 1 |
| Alluvial | R | 6/6/1995 | Uranium | 0.0247 | mg/L | 1 |
| Alluvial | R | 9/5/1995 | Selenium | 0.214 | mg/L | 1 |
| Alluvial | R | 9/5/1995 | Sulfate | 1053 | mg/L | 1 |
| Alluvial | R | 9/5/1995 | TDS | 1884 | mg/L | 1 |
| Alluvial | R | 9/5/1995 | Uranium | 0.018 | mg/L | 1 |
| Alluvial | R | 6/3/1996 | Selenium | 0.269 | mg/L | 1 |
| Alluvial | R | 6/3/1996 | Sulfate | 1096 | mg/L | 1 |
| Alluvial | R | 6/3/1996 | TDS | 1943 | mg/L | 1 |
| Alluvial | R | 6/3/1996 | Uranium | 0.02 | mg/L | 1 |
| Alluvial | R | 9/17/1996 | Selenium | 0.406 | mg/L | 1 |
| Alluvial | R | 9/17/1996 | Sulfate | 1104 | mg/L | 1 |
| Alluvial | R | 9/17/1996 | TDS | 2029 | mg/L | 1 |
| Alluvial | R | 9/17/1996 | Uranium | 0.0142 | mg/L | 1 |
| Alluvial | R | 10/10/1996 | Selenium | 0.281 | mg/L | 1 |
| Alluvial | R | 10/10/1996 | Sulfate | 1051 | mg/L | 1 |
| Alluvial | R | 10/10/1996 | TDS | 1970 | mg/L | 1 |
| Alluvial | R | 10/10/1996 | Uranium | 0.0197 | _ | 1 |
| Alluvial | R | 5/27/1997 | Nitrate | 10.5 | mg/L | 1 |
| | R | | | | mg/L | |
| Alluvial | R | 5/27/1997 | Selenium | 0.288 1226 | mg/L | 1 |
| Alluvial | | 5/27/1997 | Sulfate | | mg/L | |
| Alluvial | R | 5/27/1997 | TDS | 2050 | mg/L | 1 |
| Alluvial | R | 5/27/1997 | Uranium | 0.014 | mg/L | 1 |
| Alluvial | R | 5/6/1998 | Nitrate | 12.3 | mg/L | 1 |
| Alluvial | R | 5/6/1998 | Selenium | 0.326 | mg/L | 1 |
| Alluvial | R | 5/6/1998 | Sulfate | 1120 | mg/L | 1 |
| Alluvial | R | 5/6/1998 | TDS | 2050 | mg/L | 1 |
| Alluvial | R | 5/6/1998 | Uranium | 0.0178 | mg/L | 1 |
| Alluvial | R | 5/20/1999 | Nitrate | 12.8 | mg/L | 1 |
| Alluvial | R | 5/20/1999 | Selenium | 0.395 | mg/L | 1 |
| Alluvial | R | 5/20/1999 | Sulfate | 1130 | mg/L | 1 |
| Alluvial | R | 5/20/1999 | TDS | 2110 | mg/L | 1 |
| Alluvial | R | 5/20/1999 | Uranium | 0.0294 | mg/L | 1 |
| Alluvial | R | 5/11/2000 | Nitrate | 13.6 | mg/L | 1 |
| Alluvial | R | 5/11/2000 | Selenium | 0.4286 | mg/L | 1 |
| Alluvial | R | 5/11/2000 | Sulfate | 1220 | mg/L | 1 |
| Alluvial | R | 5/11/2000 | TDS | 2160 | mg/L | 1 |
| Alluvial | R | 5/11/2000 | Uranium | 0.02076 | mg/L | 1 |
| Alluvial | R | 5/14/2002 | Nitrate | 14.7 | mg/L | 1 |
| Alluvial | R | 5/14/2002 | Selenium | 0.505 | mg/L | 1 |
| Alluvial | R | 5/14/2002 | Sulfate | 1300 | mg/L | 1 |
| Alluvial | R | 5/14/2002 | TDS | 2210 | mg/L | 1 |
| Alluvial | R | 5/14/2002 | Uranium | 0.019 | mg/L | 1 |
| Alluvial | R | 5/15/2003 | Nitrate | 15 | mg/L | 1 |
| Alluvial | R | 5/15/2003 | Selenium | 0.579 | mg/L | 1 |
| Alluvial | R | 5/15/2003 | Sulfate | 1350 | mg/L | 1 |
| Alluvial | R | 5/15/2003 | TDS | 2220 | mg/L | 1 |
| Alluvial | R | 5/15/2003 | Uranium | 0.0192 | mg/L | 1 |
| Alluvial | R | 5/18/2004 | Nitrate | 16.4 | mg/L | 1 |
| Alluvial | R | 5/18/2004 | Selenium | 0.499 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|--|---------|---------------|---------|---------------|-------|----------|
| Alluvial | R | 5/18/2004 | Sulfate | 1300 | mg/L | 1 |
| Alluvial | R | 5/18/2004 | TDS | 2270 | mg/L | 1 |
| Alluvial | R | 5/18/2004 | Uranium | 0.0198 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/2/1988 | TDS | 1340 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 10/12/1988 | TDS | 1450 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/17/1989 | TDS | 1070 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/6/1990 | TDS | 1470 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/20/1991 | TDS | 1450 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 9/23/1992 | TDS | 1490 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 9/13/1993 | TDS | 1469 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 9/15/1994 | TDS | 1432 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW10 | 9/15/1994 | TDS | 1437 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 2/7/1995 | TDS | 1446 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW15 | 11/20/1995 | TDS | 1666 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW15 | 10/15/1996 | TDS | 1610 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW15 | 6/3/1997 | TDS | 1620 | | 1 |
| · · | | | | | mg/L | |
| Chinle Mixing Zone | CW15 | 11/8/1997 | TDS | 1800 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 5/19/1998 | TDS | 1540 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 11/5/1998 | TDS | 1560 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 6/3/1999 | TDS | 1600 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 6/21/2000 | TDS | 1520 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 6/6/2001 | TDS | 1610 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 6/24/2002 | TDS | 1690 | mg/L | 1 |
| Chinle Mixing Zone | CW17 | 2/13/1995 | TDS | 2584 | mg/L | 1 |
| Chinle Mixing Zone | CW17 | 11/28/1995 | TDS | 3103 | mg/L | 1 |
| Chinle Mixing Zone | CW17 | 8/27/1996 | TDS | 3070 | mg/L | 1 |
| Chinle Mixing Zone | CW17 | 6/3/1997 | TDS | 3170 | mg/L | 1 |
| Chinle Mixing Zone | CW17 | 11/8/1997 | TDS | 3200 | mg/L | 1 |
| Chinle Mixing Zone | CW17 | 5/18/1998 | TDS | 3200 | mg/L | 1 |
| Chinle Mixing Zone | CW17 | 11/5/1998 | TDS | 3216.666667 | mg/L | 1 |
| Chinle Mixing Zone | CW17 | 6/1/1999 | TDS | 1620 | mg/L | 1 |
| Chinle Mixing Zone | CW17 | 6/19/2000 | TDS | 3170 | mg/L | 1 |
| Chinle Mixing Zone | CW17 | 6/7/2001 | TDS | 3000 | mg/L | 1 |
| Chinle Mixing Zone | CW17 | 6/27/2002 | TDS | 3020 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 2/21/1995 | TDS | 3074 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 8/27/1996 | TDS | 3020 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 11/8/1997 | TDS | 3060 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 11/24/1998 | TDS | 3120 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 10/3/2000 | TDS | 3080 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 10/12/1995 | TDS | 1870 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 11/28/1995 | TDS | 2277 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 8/27/1996 | TDS | 2290 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW35 | 6/3/1997 | TDS | 2300 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW35 | 11/8/1997 | TDS | 2310 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW35 | 5/18/1998 | TDS | 2285 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW35 | 11/5/1998 | TDS | 2270 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW35 | 6/19/2000 | TDS | 2220 | | 1 |
| | | | TDS | 2250 | mg/L | |
| Chinle Mixing Zone | CW35 | 6/7/2001 | | | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 6/27/2002 | TDS | 2360 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 10/23/1995 | TDS | 2232 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 10/17/1996 | TDS | 1940 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 6/3/1997 | TDS | 1910 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 11/14/1997 | TDS | 1450 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 5/20/1998 | TDS | 1900 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 11/3/1998 | TDS | 1790 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 1/9/1996 | TDS | 2222 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 1/12/1996 | TDS | 2176 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 10/16/1996 | TDS | 2200 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|--|---------|---------------|---------------------|---------------|------------------|-------------|
| Chinle Mixing Zone | CW37 | 11/8/1997 | TDS | 2070 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 11/24/1998 | TDS | 2070 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 6/2/1999 | TDS | 2010 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 6/27/2000 | TDS | 1985 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 6/6/2001 | TDS | 1970 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 7/1/2002 | TDS | 1960 | mg/L | 1 |
| Chinle Mixing Zone | CW39 | 11/9/1995 | TDS | 1805 | mg/L | 1 |
| Chinle Mixing Zone | CW39 | 10/18/1996 | TDS | 1720 | mg/L | 1 |
| Chinle Mixing Zone | CW39 | 11/24/1998 | TDS | 1600 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 2/7/1997 | TDS | 1180 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 4/28/1997 | TDS | 1080 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW43 | 9/30/1997 | TDS | 1030 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW43 | 4/14/1998 | TDS | 1070 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW43 | 9/29/1999 | TDS | 1040 | | 1 |
| | | | | | mg/L | + |
| Chinle Mixing Zone | CW43 | 8/29/2000 | TDS | 1105 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 9/27/2001 | TDS | 1160 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 10/2/2002 | TDS | 1230 | mg/L | 1 |
| Chinle Mixing Zone | CW50 | 5/29/2003 | TDS | 1820 | mg/L | 1 |
| Chinle Mixing Zone | CW52 | 6/11/2003 | TDS | 2460 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 4/13/1987 | TDS | 1320 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/2/1988 | TDS | 1280 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 10/12/1988 | TDS | 1110 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 10/9/1989 | TDS | 1240 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/6/1990 | TDS | 1260 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/20/1991 | TDS | 1330 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/2/1992 | TDS | 1250 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/13/1993 | TDS | 1163 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/20/1994 | TDS | 1241 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/19/1995 | TDS | 1266 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/4/1997 | TDS | 1260 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/29/1998 | TDS | 1070 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/15/1999 | TDS | 976 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/30/2000 | TDS | 1230 | mg/L | 1 |
| Chinle Mixing Zone | WR25 | 10/12/1995 | TDS | 2646 | mg/L | 1 |
| Chinle Mixing Zone | WR25 | 11/28/1995 | TDS | 1862 | mg/L | 1 |
| Chinle Mixing Zone | WR25 | 8/27/1996 | TDS | 2920 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | WR25 | 11/8/1997 | TDS | 2930 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | WR25 | 11/5/1998 | TDS | 2986.666667 | mg/L | 1 |
| Chinle Mixing Zone | WR25 | 10/3/2000 | TDS | 2940 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW10 | 4/9/1987 | | 0.01696 | | |
| Chinle Mixing Zone Chinle Mixing Zone | CW10 | 4/9/1987 | Uranium Selenium | 0.03 | mg/L | 1 |
| • | | | Molybdenum | 0.03 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 4/9/1987 | • | | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 4/9/1987 | Nitrate | 3.6 | mg/L | |
| Chinle Mixing Zone | CW10 | 4/9/1987 | Sulfate | 760 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/2/1988 | Uranium | 0.03392 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/2/1988 | Selenium | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/2/1988 | Molybdenum | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/2/1988 | Sulfate | 709 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/2/1988 | Nitrate | 0.6 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 10/12/1988 | Uranium | 0.03392 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 10/12/1988 | Selenium | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 10/12/1988 | Molybdenum | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 10/12/1988 | Sulfate | 719 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 10/12/1988 | Nitrate | 0.6 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/17/1989 | Uranium | 0.02544 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/17/1989 | Selenium | 0.01 | mg/L | 0 |
| Chinle Mixing Zone | CW10 | 8/17/1989 | Molybdenum | 0.01 | mg/L | 0 |
| Chinle Mixing Zone | CW10 | 8/17/1989 | Sulfate | 780 | mg/L | 1 |
| | | 2 | | | ···• ə· = | · · · · · · |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|--|---------|---------------|-----------------------|---------------|-------|----------|
| Chinle Mixing Zone | CW10 | 8/17/1989 | Nitrate | 0.2 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/6/1990 | Uranium | 0.03392 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/6/1990 | Selenium | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/6/1990 | Molybdenum | 0.02 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/6/1990 | Sulfate | 741 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/6/1990 | Nitrate | 1.9 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/20/1991 | Uranium | 0.05088 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/20/1991 | Selenium | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/20/1991 | Molybdenum | 0.01 | mg/L | 0 |
| Chinle Mixing Zone | CW10 | 8/20/1991 | Sulfate | 743 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 8/20/1991 | Nitrate | 1.9 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 9/23/1992 | Uranium | 0.00848 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 9/23/1992 | Selenium | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 9/23/1992 | Molybdenum | 0.01 | mg/L | 0 |
| Chinle Mixing Zone | CW10 | 9/23/1992 | Sulfate | 760 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 9/23/1992 | Nitrate | 0.64 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 9/13/1993 | Uranium | 0.012 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW10 | 9/13/1993 | Selenium | 0.001 | mg/L | 0 |
| | CW10 | 9/13/1993 | | 0.05 | _ | 0 |
| Chinle Mixing Zone Chinle Mixing Zone | CW10 | 9/13/1993 | Molybdenum Sulfate | 678 | mg/L | 1 |
| | | | | 0.1 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 9/13/1993 | Nitrate | | mg/L | |
| Chinle Mixing Zone | CW10 | 9/15/1994 | Uranium | 0.026 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 9/15/1994 | Selenium | 0.007 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 9/15/1994 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW10 | 9/15/1994 | Sulfate | 724 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 9/15/1994 | Nitrate | 0.1 | mg/L | 0 |
| Chinle Mixing Zone | CW10 | 9/15/1994 | Uranium | 0.027 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 9/15/1994 | Selenium | 0.005 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 9/15/1994 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW10 | 9/15/1994 | Sulfate | 724 | mg/L | 1 |
| Chinle Mixing Zone | CW10 | 9/15/1994 | Nitrate | 0.1 | mg/L | 0 |
| Chinle Mixing Zone | CW15 | 2/7/1995 | Uranium | 0.015 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 2/7/1995 | Selenium | 0.021 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 2/7/1995 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW15 | 2/7/1995 | Sulfate | 777 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 2/7/1995 | Nitrate | 0.65 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 11/20/1995 | Uranium | 0.019 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 11/20/1995 | Selenium | 0.03 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 11/20/1995 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW15 | 11/20/1995 | Sulfate | 889 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 11/20/1995 | Nitrate | 3.58 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 10/15/1996 | Uranium | 0.0235 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 10/15/1996 | Selenium | 0.029 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 10/15/1996 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW15 | 10/15/1996 | Sulfate | 853 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 10/15/1996 | Nitrate | 3.78 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 6/3/1997 | Uranium | 0.045 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 6/3/1997 | Selenium | 0.025 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW15 | 6/3/1997 | Sulfate | 880 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW15 | 11/8/1997 | Uranium | 0.024 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW15 | 11/8/1997 | Selenium | 0.042 | mg/L | 1 |
| Chinle Mixing Zone Chinle Mixing Zone | CW15 | 11/8/1997 | Molybdenum | 0.042 | | 0 |
| <u> </u> | | | • | | mg/L | |
| Chinle Mixing Zone | CW15 | 11/8/1997 | Sulfate | 982 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 11/8/1997 | Nitrate | 4.67 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 5/19/1998 | Uranium | 0.0315 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 5/19/1998 | Selenium | 0.015 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 5/19/1998 | Sulfate | 870 | mg/L | 1 |
| Chinle Mixing Zone | CW15 | 11/5/1998 | Uranium | 0.030666667 | mg/L | 1 |

| Chinle Mixing Zone CW15 11/5/1998 Selenium 0.011 mg/L 1 Chinle Mixing Zone CW15 11/5/1998 Sulfate 834,3333333 mg/L 1 Chinle Mixing Zone CW15 6/3/1998 Nitrate 1.0433333333 mg/L 1 Chinle Mixing Zone CW15 6/3/1998 Uranium 0.033 mg/L 1 Chinle Mixing Zone CW15 6/3/1999 Sulfate 835 mg/L 1 Chinle Mixing Zone CW15 6/3/1999 Sulfate 835 mg/L 1 Chinle Mixing Zone CW15 6/2/12000 Uranium 0.03914 mg/L 1 Chinle Mixing Zone CW15 6/2/2000 Sulfate 854 mg/L 1 Chinle Mixing Zone CW15 6/6/2001 Selenium 0.031 mg/L 1 Chinle Mixing Zone CW15 6/2/2002 Selenium 0.035 mg/L 1 Chinle Mixing Zone CW15 6/2/4/2002 Su | Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|--|--------------------|---------|---------------|------------|---------------|-------|----------|
| Chinle Mixing Zone | Chinle Mixing Zone | CW15 | 11/5/1998 | Selenium | 0.011 | mg/L | 1 |
| Chinle Mixing Zone CW16 11/6/1998 Sulfate 834,333333 mg/L 1 Chinle Mixing Zone CW15 6/3/1999 Nitrate 1.0433333333 mg/L 1 Chinle Mixing Zone CW15 6/3/1999 Selenium 0.033 mg/L 1 Chinle Mixing Zone CW15 6/3/1999 Selenium 0.0381 mg/L 1 Chinle Mixing Zone CW15 6/2/12000 Selenium 0.03914 mg/L 1 Chinle Mixing Zone CW15 6/2/12000 Selenium 0.03914 mg/L 1 Chinle Mixing Zone CW15 6/2/2000 Selenium 0.031 mg/L 1 Chinle Mixing Zone CW15 6/2/2002 Uranium 0.017 mg/L 1 Chinle Mixing Zone CW15 6/2/4/2002 Uranium 0.017 mg/L 1 Chinle Mixing Zone CW15 6/2/4/2002 Sulfate 838 mg/L 1 Chinle Mixing Zone CW15 6/2/4/2002 | Chinle Mixing Zone | CW15 | 11/5/1998 | Molybdenum | 0.023333333 | mg/L | 0 |
| Chinle Mixing Zone | <u>~</u> | CW15 | 11/5/1998 | • | | | 1 |
| Chinle Mixing Zone CW15 6/3/1999 Selentum 0.014 mgL 1 Chinle Mixing Zone CW15 6/3/1999 Selentum 0.014 mgL 1 Chinle Mixing Zone CW15 6/3/19200 Uranium 0.05014 mgL 1 Chinle Mixing Zone CW15 6/2/1/2000 Selenium 0.05014 mgL 1 Chinle Mixing Zone CW15 6/2/1/2000 Selenium 0.03614 mgL 1 Chinle Mixing Zone CW15 6/6/2001 Selenium 0.0209 mgL 1 Chinle Mixing Zone CW15 6/6/2001 Selenium 0.031 mgL 1 Chinle Mixing Zone CW15 6/2/4/2002 Selenium 0.035 mgL 1 Chinle Mixing Zone CW15 6/2/4/2002 Selenium 0.035 mgL 1 Chinle Mixing Zone CW17 2/13/1995 Uranium 0.121 mgL 1 Chinle Mixing Zone CW17 2/13/1995 Ura | | | | | | - | 1 |
| Chinle Mixing Zone CW15 6/3/1999 Suffate 835 mg/L 1 Chinle Mixing Zone CW15 6/3/1999 Suffate 835 mg/L 1 Chinle Mixing Zone CW15 6/21/2000 Uranium 0.05014 mg/L 1 Chinle Mixing Zone CW15 6/21/2000 Suffate 854 mg/L 1 Chinle Mixing Zone CW15 6/6/2001 Selenium 0.0301 mg/L 1 Chinle Mixing Zone CW15 6/6/2001 Selenium 0.031 mg/L 1 Chinle Mixing Zone CW15 6/6/2001 Suffate 853 mg/L 1 Chinle Mixing Zone CW15 6/2/4/2002 Suffate 838 mg/L 1 Chinle Mixing Zone CW17 2/13/1995 Selenium 0.011 mg/L 1 Chinle Mixing Zone CW17 2/13/1995 Selenium 0.021 mg/L 1 Chinle Mixing Zone CW17 2/13/1995 Selenium | <u>~</u> | | | | | | 1 |
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| Chinle Mixing Zone CW17 11/28/1995 Selenium 0.069 mg/L 1 Chinle Mixing Zone CW17 11/28/1995 Molybdenum 0.03 mg/L 0 Chinle Mixing Zone CW17 11/28/1995 Sulfate 1675 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Uranium 0.069 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Selenium 0.0116 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Selenium 0.069 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Selenium 0.06 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Sulfate 1650 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Uranium 0.137 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Selenium 0.085 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Su | Chinle Mixing Zone | CW17 | 2/13/1995 | Nitrate | 13.4 | mg/L | 1 |
| Chinle Mixing Zone CW17 11/28/1995 Selenium 0.069 mg/L 1 Chinle Mixing Zone CW17 11/28/1995 Sulfate 1675 mg/L 0 Chinle Mixing Zone CW17 11/28/1995 Sulfate 1675 mg/L 1 Chinle Mixing Zone CW17 11/28/1995 Nitrate 15 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Selenium 0.069 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Selenium 0.06 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Sulfate 1650 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Uranium 0.137 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Selenium 0.085 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Selenium 0.09 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Sulfate <td>Chinle Mixing Zone</td> <td>CW17</td> <td>11/28/1995</td> <td>Uranium</td> <td>0.1256</td> <td>mg/L</td> <td>1</td> | Chinle Mixing Zone | CW17 | 11/28/1995 | Uranium | 0.1256 | mg/L | 1 |
| Chinle Mixing Zone CW17 11/28/1995 Molybdenum 0.03 mg/L 0 Chinle Mixing Zone CW17 11/28/1995 Sulfate 1675 mg/L 1 Chinle Mixing Zone CW17 11/28/1995 Nitrate 15 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Uranium 0.069 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Selenium 0.116 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Sulfate 1650 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Nitrate 15.3 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Uranium 0.137 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Selenium 0.085 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Wolybdenum 0.09 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Uranium </td <td>Chinle Mixing Zone</td> <td>CW17</td> <td>11/28/1995</td> <td>Selenium</td> <td>0.069</td> <td></td> <td>1</td> | Chinle Mixing Zone | CW17 | 11/28/1995 | Selenium | 0.069 | | 1 |
| Chinle Mixing Zone CW17 11/28/1995 Sulfate 1675 mg/L 1 Chinle Mixing Zone CW17 11/28/1996 Nitrate 15 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Uranium 0.069 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Selenium 0.116 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Molybdenum 0.06 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Nitrate 15.3 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Nitrate 15.3 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Uranium 0.137 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Selenium 0.085 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Sulfate 1660 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Sulfate | Chinle Mixing Zone | CW17 | | Molvbdenum | 0.03 | - | 0 |
| Chinle Mixing Zone CW17 11/28/1995 Nitrate 15 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Uranium 0.069 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Selenium 0.116 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Molybdenum 0.06 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Sulfate 1650 mg/L 1 Chinle Mixing Zone CW17 8/27/1996 Nitrate 15.3 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Uranium 0.137 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Selenium 0.085 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Sulfate 1660 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Uranium 0.153 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Selenium <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td>1</td> | | | | • | | | 1 |
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| Chinle Mixing Zone CW17 6/3/1997 Uranium 0.137 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Selenium 0.085 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Molybdenum 0.09 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Sulfate 1660 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Uranium 0.153 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Wolybdenum 0.074 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Molybdenum 0.03 mg/L 0 Chinle Mixing Zone CW17 11/8/1997 Sulfate 1700 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Nitrate 14.9 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Uranium 0.137 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Seleniu | <u>~</u> | | | | | - | |
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| Chinle Mixing Zone CW17 6/3/1997 Molybdenum 0.09 mg/L 1 Chinle Mixing Zone CW17 6/3/1997 Sulfate 1660 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Uranium 0.153 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Selenium 0.074 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Molybdenum 0.03 mg/L 0 Chinle Mixing Zone CW17 11/8/1997 Sulfate 1700 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Nitrate 14.9 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Uranium 0.137 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Selenium 0.076 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Sulfate 1830 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Uranium< | · | | | | | - | |
| Chinle Mixing Zone CW17 6/3/1997 Sulfate 1660 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Uranium 0.153 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Selenium 0.074 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Molybdenum 0.03 mg/L 0 Chinle Mixing Zone CW17 11/8/1997 Sulfate 1700 mg/L 1 Chinle Mixing Zone CW17 11/8/1997 Nitrate 14.9 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Uranium 0.137 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Selenium 0.076 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Sulfate 1830 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Sulfate 1830 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Molybdenum | <u>~</u> | | | | | | |
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| Chinle Mixing Zone CW17 11/8/1997 Nitrate 14.9 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Uranium 0.137 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Selenium 0.076 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Molybdenum 0.03 mg/L 0 Chinle Mixing Zone CW17 5/18/1998 Sulfate 1830 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Uranium 0.1403333333 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Selenium 0.067666667 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Molybdenum 0.04 mg/L 0 Chinle Mixing Zone CW17 11/5/1998 Sulfate 1760 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Nitrate 15.33333333 mg/L 1 Chinle Mixing Zone CW17 6/11/1999 <td>Chinle Mixing Zone</td> <td>CW17</td> <td>11/8/1997</td> <td>Molybdenum</td> <td>0.03</td> <td>mg/L</td> <td>0</td> | Chinle Mixing Zone | CW17 | 11/8/1997 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone CW17 5/18/1998 Uranium 0.137 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Selenium 0.076 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Molybdenum 0.03 mg/L 0 Chinle Mixing Zone CW17 5/18/1998 Sulfate 1830 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Uranium 0.140333333 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Selenium 0.067666667 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Molybdenum 0.04 mg/L 0 Chinle Mixing Zone CW17 11/5/1998 Sulfate 1760 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Nitrate 15.333333333 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Uranium 0.141 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 <td>Chinle Mixing Zone</td> <td>CW17</td> <td>11/8/1997</td> <td>Sulfate</td> <td>1700</td> <td>mg/L</td> <td>1</td> | Chinle Mixing Zone | CW17 | 11/8/1997 | Sulfate | 1700 | mg/L | 1 |
| Chinle Mixing Zone CW17 5/18/1998 Selenium 0.076 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Molybdenum 0.03 mg/L 0 Chinle Mixing Zone CW17 5/18/1998 Sulfate 1830 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Uranium 0.140333333 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Selenium 0.067666667 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Molybdenum 0.04 mg/L 0 Chinle Mixing Zone CW17 11/5/1998 Sulfate 1760 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Nitrate 15.333333333 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Uranium 0.141 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Selenium 0.073 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 <td>Chinle Mixing Zone</td> <td>CW17</td> <td>11/8/1997</td> <td>Nitrate</td> <td>14.9</td> <td>mg/L</td> <td>1</td> | Chinle Mixing Zone | CW17 | 11/8/1997 | Nitrate | 14.9 | mg/L | 1 |
| Chinle Mixing Zone CW17 5/18/1998 Selenium 0.076 mg/L 1 Chinle Mixing Zone CW17 5/18/1998 Molybdenum 0.03 mg/L 0 Chinle Mixing Zone CW17 5/18/1998 Sulfate 1830 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Uranium 0.140333333 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Selenium 0.067666667 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Molybdenum 0.04 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Sulfate 1760 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Nitrate 15.333333333 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Uranium 0.141 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Selenium 0.073 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 <td>Chinle Mixing Zone</td> <td>CW17</td> <td>5/18/1998</td> <td>Uranium</td> <td>0.137</td> <td>mg/L</td> <td>1</td> | Chinle Mixing Zone | CW17 | 5/18/1998 | Uranium | 0.137 | mg/L | 1 |
| Chinle Mixing Zone CW17 5/18/1998 Molybdenum 0.03 mg/L 0 Chinle Mixing Zone CW17 5/18/1998 Sulfate 1830 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Uranium 0.140333333 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Selenium 0.067666667 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Molybdenum 0.04 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Sulfate 1760 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Nitrate 15.33333333 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Uranium 0.141 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Selenium 0.073 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Uranium 0.175 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 | | | | | | _ | 1 |
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| Chinle Mixing Zone CW17 11/5/1998 Molybdenum 0.04 mg/L 0 Chinle Mixing Zone CW17 11/5/1998 Sulfate 1760 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Nitrate 15.333333333 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Uranium 0.141 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Selenium 0.073 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Uranium 0.175 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Selenium 0.08079 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Sulfate 1850 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Uranium 0.14 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Selenium 0.071 mg/L 1 | | | | | | | |
| Chinle Mixing Zone CW17 11/5/1998 Sulfate 1760 mg/L 1 Chinle Mixing Zone CW17 11/5/1998 Nitrate 15.33333333 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Uranium 0.141 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Selenium 0.073 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Uranium 0.175 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Selenium 0.08079 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Sulfate 1850 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Uranium 0.14 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Selenium 0.071 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Selenium 0.071 mg/L 1 | <u>~</u> | | | | | | |
| Chinle Mixing Zone CW17 11/5/1998 Nitrate 15.333333333 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Uranium 0.141 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Selenium 0.073 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Sulfate 1880 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Uranium 0.175 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Selenium 0.08079 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Sulfate 1850 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Uranium 0.14 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Selenium 0.071 mg/L 1 | | | | • | | | |
| Chinle Mixing Zone CW17 6/1/1999 Uranium 0.141 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Selenium 0.073 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Sulfate 1880 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Uranium 0.175 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Selenium 0.08079 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Sulfate 1850 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Uranium 0.14 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Selenium 0.071 mg/L 1 | | | | | | - | _ |
| Chinle Mixing Zone CW17 6/1/1999 Selenium 0.073 mg/L 1 Chinle Mixing Zone CW17 6/1/1999 Sulfate 1880 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Uranium 0.175 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Selenium 0.08079 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Sulfate 1850 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Uranium 0.14 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Selenium 0.071 mg/L 1 | | | | | | | |
| Chinle Mixing Zone CW17 6/1/1999 Sulfate 1880 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Uranium 0.175 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Selenium 0.08079 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Sulfate 1850 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Uranium 0.14 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Selenium 0.071 mg/L 1 | | | | | | | |
| Chinle Mixing Zone CW17 6/19/2000 Uranium 0.175 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Selenium 0.08079 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Sulfate 1850 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Uranium 0.14 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Selenium 0.071 mg/L 1 | <u>~</u> | | | | | | |
| Chinle Mixing Zone CW17 6/19/2000 Selenium 0.08079 mg/L 1 Chinle Mixing Zone CW17 6/19/2000 Sulfate 1850 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Uranium 0.14 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Selenium 0.071 mg/L 1 | | | | | | _ | |
| Chinle Mixing Zone CW17 6/19/2000 Sulfate 1850 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Uranium 0.14 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Selenium 0.071 mg/L 1 | <u>~</u> | | | | | | |
| Chinle Mixing Zone CW17 6/7/2001 Uranium 0.14 mg/L 1 Chinle Mixing Zone CW17 6/7/2001 Selenium 0.071 mg/L 1 | | | | | | | |
| Chinle Mixing Zone CW17 6/7/2001 Selenium 0.071 mg/L 1 | | | | | | | |
| | | | | Uranium | | | 1 |
| Chinle Mixing Zone CW17 6/7/2001 Sulfate 1640 mg/l 1 | Chinle Mixing Zone | | | Selenium | | mg/L | 1 |
| | Chinle Mixing Zone | CW17 | 6/7/2001 | Sulfate | 1640 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|--------------------|---------|---------------|------------|---------------|-------|----------|
| Chinle Mixing Zone | CW17 | 6/27/2002 | Uranium | 0.131 | mg/L | 1 |
| Chinle Mixing Zone | CW17 | 6/27/2002 | Selenium | 0.068 | mg/L | 1 |
| Chinle Mixing Zone | CW17 | 6/27/2002 | Sulfate | 1680 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 2/21/1995 | Uranium | 0.101 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 2/21/1995 | Selenium | 0.062 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 2/21/1995 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW24 | 2/21/1995 | Sulfate | 1647 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 2/21/1995 | Nitrate | 12.3 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 8/27/1996 | Uranium | 0.119 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 8/27/1996 | Selenium | 0.034 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 8/27/1996 | Molybdenum | 0.04 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 8/27/1996 | Sulfate | 1670 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 8/27/1996 | Nitrate | 8.37 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 11/8/1997 | Uranium | 0.129 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 11/8/1997 | Selenium | 0.046 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 11/8/1997 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW24 | 11/8/1997 | Sulfate | 1750 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 11/24/1998 | Uranium | 0.154 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 11/24/1998 | Selenium | 0.064 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 11/24/1998 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW24 | 11/24/1998 | Sulfate | 1750 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 10/3/2000 | Uranium | 0.1276 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 10/3/2000 | Selenium | 0.07977 | mg/L | 1 |
| Chinle Mixing Zone | CW24 | 10/3/2000 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW24 | 10/3/2000 | Sulfate | 1410 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 10/12/1995 | Uranium | 0.151 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 10/12/1995 | Selenium | 0.061 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 10/12/1995 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW35 | 10/12/1995 | Sulfate | 871 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 10/12/1995 | Nitrate | 8.37 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 11/28/1995 | Uranium | 0.1408 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 11/28/1995 | Selenium | 0.012 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 11/28/1995 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW35 | 11/28/1995 | Sulfate | 1187 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 11/28/1995 | Nitrate | 1.16 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 8/27/1996 | Uranium | 0.172 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 8/27/1996 | Selenium | 0.087 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 8/27/1996 | Molybdenum | 0.03 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 8/27/1996 | Sulfate | 1240 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 8/27/1996 | Nitrate | 2.51 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 6/3/1997 | Uranium | 0.189 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 6/3/1997 | Selenium | 0.032 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 6/3/1997 | Sulfate | 1260 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 11/8/1997 | Uranium | 0.201 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 11/8/1997 | Selenium | 0.032 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 11/8/1997 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW35 | 11/8/1997 | Sulfate | 1200 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 11/8/1997 | Nitrate | 2.87 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 5/18/1998 | Uranium | 0.175 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 5/18/1998 | Selenium | 0.034 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 5/18/1998 | Sulfate | 1240 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 11/5/1998 | Uranium | 0.222 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 11/5/1998 | Selenium | 0.041 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 11/5/1998 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW35 | 11/5/1998 | Sulfate | 1170 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 11/5/1998 | Nitrate | 3.35 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 6/1/1999 | Uranium | 0.185 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 6/1/1999 | Selenium | 0.52 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|--------------------|---------|---------------|------------|---------------|-------|----------|
| Chinle Mixing Zone | CW35 | 6/1/1999 | Sulfate | 626 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 6/19/2000 | Uranium | 0.2312 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 6/19/2000 | Selenium | 0.06609 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 6/19/2000 | Sulfate | 1260 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 6/7/2001 | Uranium | 0.172 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 6/7/2001 | Selenium | 0.061 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 6/7/2001 | Sulfate | 1110 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 6/27/2002 | Uranium | 0.181 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 6/27/2002 | Selenium | 0.068 | mg/L | 1 |
| Chinle Mixing Zone | CW35 | 6/27/2002 | Sulfate | 1220 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 10/23/1995 | Uranium | 0.013 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 10/23/1995 | Selenium | 0.035 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 10/23/1995 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW36 | 10/23/1995 | Sulfate | 1262 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 10/23/1995 | Nitrate | 0.1 | mg/L | 0 |
| Chinle Mixing Zone | CW36 | 10/17/1996 | Uranium | 0.0046 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 10/17/1996 | Selenium | 0.005 | mg/L | 0 |
| Chinle Mixing Zone | CW36 | 10/17/1996 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW36 | 10/17/1996 | Sulfate | 1050 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 10/17/1996 | Nitrate | 0.1 | mg/L | 0 |
| Chinle Mixing Zone | CW36 | 6/3/1997 | Uranium | 0.002 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 6/3/1997 | Selenium | 0.005 | mg/L | 0 |
| Chinle Mixing Zone | CW36 | 6/3/1997 | Sulfate | 1070 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 11/14/1997 | Uranium | 0.0052 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 11/14/1997 | Selenium | 0.005 | mg/L | 0 |
| Chinle Mixing Zone | CW36 | 11/14/1997 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW36 | 11/14/1997 | Sulfate | 742 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 11/14/1997 | Nitrate | 0.1 | mg/L | 0 |
| Chinle Mixing Zone | CW36 | 5/20/1998 | Uranium | 0.0061 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 5/20/1998 | Selenium | 0.005 | mg/L | 0 |
| Chinle Mixing Zone | CW36 | 5/20/1998 | Sulfate | 1080 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 11/3/1998 | Uranium | 0.003 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 11/3/1998 | Selenium | 0.005 | mg/L | 0 |
| Chinle Mixing Zone | CW36 | 11/3/1998 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW36 | 11/3/1998 | Sulfate | 940 | mg/L | 1 |
| Chinle Mixing Zone | CW36 | 11/3/1998 | Nitrate | 0.1 | mg/L | 0 |
| Chinle Mixing Zone | CW37 | 1/9/1996 | Uranium | 0.032 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 1/9/1996 | Selenium | 0.096 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 1/9/1996 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW37 | 1/9/1996 | Sulfate | 1179 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 1/9/1996 | Nitrate | 6.83 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 1/12/1996 | Uranium | 0.024 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 1/12/1996 | Selenium | 0.074 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 1/12/1996 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW37 | 1/12/1996 | Sulfate | 1206 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 1/12/1996 | Nitrate | 7.11 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 10/16/1996 | Uranium | 0.0244 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 10/16/1996 | Selenium | 0.094 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 10/16/1996 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW37 | 10/16/1996 | Sulfate | 1207 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 10/16/1996 | Nitrate | 8.22 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 11/8/1997 | Uranium | 0.028 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 11/8/1997 | Selenium | 0.081 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 11/8/1997 | Sulfate | 1090 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 11/24/1998 | Uranium | 0.028 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 11/24/1998 | Selenium | 0.079 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 11/24/1998 | Sulfate | 1130 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 6/2/1999 | Uranium | 0.027 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|--------------------|---------|---------------|------------|---------------|-------|----------|
| Chinle Mixing Zone | CW37 | 6/2/1999 | Selenium | 0.086 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 6/2/1999 | Sulfate | 1140 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 6/27/2000 | Uranium | 0.02879 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 6/27/2000 | Selenium | 0.07739 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 6/27/2000 | Sulfate | 1065 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 6/6/2001 | Uranium | 0.03 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 6/6/2001 | Selenium | 0.082 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 6/6/2001 | Sulfate | 1050 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 7/1/2002 | Uranium | 0.028 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 7/1/2002 | Selenium | 0.08 | mg/L | 1 |
| Chinle Mixing Zone | CW37 | 7/1/2002 | Sulfate | 1020 | mg/L | 1 |
| Chinle Mixing Zone | CW39 | 11/9/1995 | Uranium | 0.0173 | mg/L | 1 |
| Chinle Mixing Zone | CW39 | 11/9/1995 | Selenium | 0.085 | mg/L | 1 |
| Chinle Mixing Zone | CW39 | 11/9/1995 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW39 | 11/9/1995 | Sulfate | 972 | mg/L | 1 |
| Chinle Mixing Zone | CW39 | 11/9/1995 | Nitrate | 5.73 | mg/L | 1 |
| Chinle Mixing Zone | CW39 | 10/18/1996 | Uranium | 0.0218 | mg/L | 1 |
| Chinle Mixing Zone | CW39 | 10/18/1996 | Selenium | 0.031 | mg/L | 1 |
| Chinle Mixing Zone | CW39 | 10/18/1996 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW39 | 10/18/1996 | Sulfate | 896 | mg/L | 1 |
| Chinle Mixing Zone | CW39 | 10/18/1996 | Nitrate | 4.58 | mg/L | 1 |
| Chinle Mixing Zone | CW39 | 11/24/1998 | Uranium | 0.045 | mg/L | 1 |
| Chinle Mixing Zone | CW39 | 11/24/1998 | Selenium | 0.063 | mg/L | 1 |
| Chinle Mixing Zone | CW39 | 11/24/1998 | Sulfate | 836 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 2/7/1997 | Uranium | 0.025 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 2/7/1997 | Selenium | 0.013 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 2/7/1997 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW43 | 2/7/1997 | Sulfate | 490 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 2/7/1997 | Nitrate | 0.23 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 4/28/1997 | Uranium | 0.024 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 4/28/1997 | Selenium | 0.009 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 4/28/1997 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW43 | 4/28/1997 | Sulfate | 444 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 4/28/1997 | Nitrate | 1.61 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 9/30/1997 | Uranium | 0.021 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 9/30/1997 | Selenium | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 9/30/1997 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW43 | 9/30/1997 | Sulfate | 444 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 4/14/1998 | Uranium | 0.0245 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 4/14/1998 | Selenium | 0.012 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 4/14/1998 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW43 | 4/14/1998 | Sulfate | 460 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 4/14/1998 | Nitrate | 3.71 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 9/29/1999 | Uranium | 0.0315 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 9/29/1999 | Selenium | 0.013 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 9/29/1999 | Sulfate | 433 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 8/29/2000 | Uranium | 0.02585 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 8/29/2000 | Selenium | 0.0185 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 8/29/2000 | Sulfate | 409 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 9/27/2001 | Uranium | 0.0299 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 9/27/2001 | Selenium | 0.014 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 9/27/2001 | Sulfate | 450 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 10/2/2002 | Uranium | 0.03 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 10/2/2002 | Selenium | 0.023 | mg/L | 1 |
| Chinle Mixing Zone | CW43 | 10/2/2002 | Sulfate | 538 | mg/L | 1 |
| Chinle Mixing Zone | CW50 | 5/29/2003 | Uranium | 0.0417 | mg/L | 1 |
| Chinle Mixing Zone | CW50 | 5/29/2003 | Selenium | 0.005 | mg/L | 0 |
| Chinle Mixing Zone | CW50 | 5/29/2003 | Molybdenum | 0.03 | mg/L | 0 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|--------------------|---------|---------------|------------|---------------|-------|----------|
| Chinle Mixing Zone | CW50 | 5/29/2003 | Sulfate | 934 | mg/L | 1 |
| Chinle Mixing Zone | CW50 | 5/29/2003 | Nitrate | 0.1 | mg/L | 0 |
| Chinle Mixing Zone | CW52 | 6/11/2003 | Uranium | 0.0412 | mg/L | 1 |
| Chinle Mixing Zone | CW52 | 6/11/2003 | Selenium | 0.017 | mg/L | 1 |
| Chinle Mixing Zone | CW52 | 6/11/2003 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW52 | 6/11/2003 | Sulfate | 1050 | mg/L | 1 |
| Chinle Mixing Zone | CW52 | 6/11/2003 | Nitrate | 0.8 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 4/13/1987 | Uranium | 0.01 | mg/L | 0 |
| Chinle Mixing Zone | CW9 | 4/13/1987 | Selenium | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 4/13/1987 | Molybdenum | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 4/13/1987 | Sulfate | 797 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 4/13/1987 | Nitrate | 1.1 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/2/1988 | Uranium | 0.02544 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/2/1988 | Selenium | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/2/1988 | Molybdenum | 0.02 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/2/1988 | Sulfate | 671 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/2/1988 | Nitrate | 1.5 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 10/12/1988 | Uranium | 0.00848 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 10/12/1988 | Selenium | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 10/12/1988 | Molybdenum | 0.06 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 10/12/1988 | Sulfate | 750 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 10/12/1988 | Nitrate | 0.3 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 10/9/1989 | Uranium | 0.02544 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 10/9/1989 | Selenium | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 10/9/1989 | Molybdenum | 0.11 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 10/9/1989 | Sulfate | 923 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 10/9/1989 | Nitrate | 0.2 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/6/1990 | Uranium | 0.01696 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/6/1990 | Selenium | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/6/1990 | Molybdenum | 0.1 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/6/1990 | Sulfate | 718 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/6/1990 | Nitrate | 1.7 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/20/1991 | Uranium | 0.01696 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/20/1991 | Selenium | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/20/1991 | Molybdenum | 0.08 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/20/1991 | Sulfate | 664 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 8/20/1991 | Nitrate | 3 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/2/1992 | Uranium | 0.00848 | mg/L | 0 |
| Chinle Mixing Zone | CW9 | 9/2/1992 | Selenium | 0.01 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/2/1992 | Molybdenum | 0.09 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/2/1992 | Sulfate | 680 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/2/1992 | Nitrate | 0.6 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/13/1993 | Uranium | 0.006 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/13/1993 | Selenium | 0.068 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/13/1993 | Molybdenum | 0.1 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/13/1993 | Sulfate | 584 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/13/1993 | Nitrate | 0.1 | mg/L | 0 |
| Chinle Mixing Zone | CW9 | 9/20/1994 | Uranium | 0.052 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/20/1994 | Selenium | 0.006 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/20/1994 | Molybdenum | 0.03 | mg/L | 0 |
| Chinle Mixing Zone | CW9 | 9/20/1994 | Sulfate | 731 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/20/1994 | Nitrate | 0.1 | mg/L | 0 |
| Chinle Mixing Zone | CW9 | 9/19/1995 | Uranium | 0.0554 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/19/1995 | Selenium | 0.005 | mg/L | 0 |
| Chinle Mixing Zone | CW9 | 9/19/1995 | Molybdenum | 0.1 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/19/1995 | Sulfate | 676 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/19/1995 | Nitrate | 0.37 | mg/L | 1 |
| Chinle Mixing Zone | CW9 | 9/4/1997 | Uranium | 0.005 | mg/L | 1 |

| Chinle Mixing Zone CW9 9/4/1997 Selenium 0.005 mg/L 0 Chinle Mixing Zone CW9 9/4/1997 Sulfate 640 mg/L 1 Chinle Mixing Zone CW9 9/4/1997 Nitrate 0.1 mg/L 0 Chinle Mixing Zone CW9 9/29/1998 Beanium 0.005 mg/L 1 Chinle Mixing Zone CW9 9/29/1998 Bellium 0.005 mg/L 0 Chinle Mixing Zone CW9 9/29/1998 Mixing Let 532 mg/L 1 Chinle Mixing Zone CW9 9/29/1998 Nifrate 0.1 mg/L 1 Chinle Mixing Zone CW9 9/15/1999 Selenium 0.01 mg/L 1 Chinle Mixing Zone CW9 9/15/1999 Sulfate 485 mg/L 1 Chinle Mixing Zone CW9 9/15/1999 Sulfate 485 mg/L 1 Chinle Mixing Zone CW9 9/15/1999 Nitrate 485 </th <th>Zone</th> <th>Well ID</th> <th>Sampling Date</th> <th>Analyte</th> <th>Result (mg/L)</th> <th>Units</th> <th>Detected</th> | Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|--|--|---------|---------------|------------|---------------|-------|----------|
| Chinle Mixing Zone CW9 9/4/1997 Sulfate 640 mg/L 1 Chinle Mixing Zone CW9 9/4/1997 Nitrate 0.1 mg/L 0 Chinle Mixing Zone CW9 9/29/1998 Uranium 0.005 mg/L 1 Chinle Mixing Zone CW9 9/29/1998 Uranium 0.005 mg/L 1 Chinle Mixing Zone CW9 9/29/1998 Selentium 0.005 mg/L 1 Chinle Mixing Zone CW9 9/29/1998 Molybdenum 0.07 mg/L 0 Chinle Mixing Zone CW9 9/29/1998 Sulfate 532 mg/L 1 Chinle Mixing Zone CW9 9/29/1998 Sulfate 532 mg/L 1 Chinle Mixing Zone CW9 9/29/1998 Sulfate 532 mg/L 1 Chinle Mixing Zone CW9 9/3/1999 Uranium 0.00111 mg/L 0 Chinle Mixing Zone CW9 9/3/1999 Uranium 0.00111 mg/L 0 Chinle Mixing Zone CW9 9/3/1999 Uranium 0.00111 mg/L 1 Chinle Mixing Zone CW9 9/3/1999 Sulfate 485 mg/L 1 Chinle Mixing Zone CW9 9/3/1999 Nitrate 0.1 mg/L 0 Chinle Mixing Zone CW9 9/3/1999 Nitrate 0.1 mg/L 0 Chinle Mixing Zone CW9 8/30/2000 Uranium 0.005114 mg/L 1 Chinle Mixing Zone CW9 8/30/2000 Uranium 0.005114 mg/L 1 Chinle Mixing Zone CW9 8/30/2000 Selenium 0.005 mg/L 0 Chinle Mixing Zone CW9 8/30/2000 Sulfate 405 mg/L 1 Chinle Mixing Zone CW9 8/30/2000 Sulfate 576 mg/L 1 Chinle Mixing Zone CW9 8/30/2000 Nitrate 0.13 mg/L 1 Chinle Mixing Zone WR25 101/21/1995 Selenium 0.015 mg/L 1 Chinle Mixing Zone WR25 101/21/1995 Selenium 0.145 mg/L 1 Chinle Mixing Zone WR25 101/21/1995 Selenium 0.145 mg/L 1 Chinle Mixing Zone WR25 101/21/1995 Selenium 0.145 mg/L 1 Chinle Mixing Zone WR25 101/21/1995 Selenium 0.145 mg/L 1 Chinle Mixing Zone WR25 101/21/1995 Sulfate 1476 mg/L 1 Chinle Mixing Zone WR25 101/21/1995 Selenium 0.145 mg/L 1 Chinle Mixing Zone WR25 101/21/1995 Selenium 0.145 mg/L 1 Chinle Mixing Zone WR25 101/21/1995 Selenium 0.145 mg/L 1 Chinle Mixing Zone WR25 101/21/1995 Selenium 0.145 mg/L 1 Chinle Mixing Zone WR25 101/21/1995 Selenium 0.145 mg/L 1 Chinle Mixing Zone WR25 11/28/1995 Uranium 0.1691 mg/L 1 Chinle Mixing Zone WR25 11/28/1995 Wirate 1550 mg/L 1 Chinle Mixing Zone WR25 11/28/1995 Wirate 16.7 mg/L 1 Chinle Mixing Zone WR25 11/28/1995 Wirate 18.8 mg/L 1 Chinle Mixing Zone WR25 11/28/1995 Wirate 18.8 mg/L 1 Chinle Mixing Z | Chinle Mixing Zone | CW9 | 9/4/1997 | Selenium | 0.005 | mg/L | 0 |
| Chinle Mixing Zone CW9 9/29/1998 Uranium 0.005 mg/L 0 Chinle Mixing Zone CW9 9/29/1998 Selenium 0.005 mg/L 1 Chinle Mixing Zone CW9 9/29/1998 Selenium 0.005 mg/L 0 Chinle Mixing Zone CW9 9/29/1998 Suffate 532 mg/L 1 Chinle Mixing Zone CW9 9/29/1998 Suffate 532 mg/L 1 Chinle Mixing Zone CW9 9/29/1998 Uranium 0.011 mg/L 0 Chinle Mixing Zone CW9 9/29/1998 Uranium 0.0111 mg/L 1 Chinle Mixing Zone CW9 9/16/1999 Uranium 0.0111 mg/L 1 Chinle Mixing Zone CW9 9/16/1999 Uranium 0.0111 mg/L 1 Chinle Mixing Zone CW9 9/16/1999 Uranium 0.0111 mg/L 1 Chinle Mixing Zone CW9 9/16/1999 Mixitate 0.1 mg/L 0 Chinle Mixing Zone CW9 9/16/1999 Suffate 485 mg/L 1 Chinle Mixing Zone CW9 9/16/1999 Suffate 485 mg/L 1 Chinle Mixing Zone CW9 8/16/1999 Suffate 485 mg/L 1 Chinle Mixing Zone CW9 8/30/2000 Uranium 0.005114 mg/L 0 Chinle Mixing Zone CW9 8/30/2000 Uranium 0.005114 mg/L 0 Chinle Mixing Zone CW9 8/30/2000 Uranium 0.005114 mg/L 0 Chinle Mixing Zone CW9 8/30/2000 Uranium 0.005114 mg/L 1 Chinle Mixing Zone CW9 8/30/2000 Selenium 0.005 mg/L 0 Chinle Mixing Zone CW9 8/30/2000 Suffate 576 mg/L 1 Chinle Mixing Zone WR2 8/30/2000 Suffate 576 mg/L 1 Chinle Mixing Zone WR2 8/30/2000 Suffate 16/30 mg/L 1 Chinle Mixing Zone WR25 101/2/1995 Uranium 0.116 mg/L 1 Chinle Mixing Zone WR25 101/2/1995 Selenium 0.145 mg/L 1 Chinle Mixing Zone WR25 101/2/1995 Suffate 14/8 mg/L 1 Chinle Mixing Zone WR25 101/2/1995 Suffate 14/8 mg/L 1 Chinle Mixing Zone WR25 101/2/1995 Suffate 14/8 mg/L 1 Chinle Mixing Zone WR25 101/2/1995 Suffate 14/8 mg/L 1 Chinle Mixing Zone WR25 101/2/1995 Suffate 14/8 mg/L 1 Chinle Mixing Zone WR25 101/2/1995 Suffate 14/8 mg/L 1 Chinle Mixing Zone WR25 101/2/1995 Suffate 14/8 mg/L 1 Chinle Mixing Zone WR25 101/2/1995 Suffate 14/8 mg/L 1 Chinle Mixing Zone WR25 101/2/1995 Suffate 14/8 mg/L 1 Chinle Mixing Zone WR25 101/2/1995 Suffate 14/8 mg/L 1 Chinle Mixing Zone WR25 101/2/1995 Suffate 14/8 mg/L 1 Chinle Mixing Zone WR25 101/2/1995 Suffate 14/8 mg/L 1 Chinle Mixing Zone WR25 101/2/1995 Suffate 14/8 mg/L 1 Chinle Mixing Zone WR25 10 | Chinle Mixing Zone | CW9 | 9/4/1997 | Molybdenum | 0.03 | mg/L | 1 |
| Chinle Mixing Zone | Chinle Mixing Zone | CW9 | 9/4/1997 | Sulfate | 640 | mg/L | 1 |
| Chinle Mixing Zone CW9 9/29/1998 Molybrotenum 0.005 mg/L 0 Chinle Mixing Zone CW9 9/29/1998 Mulphoneum 0.07 mg/L 1 Chinle Mixing Zone CW9 9/29/1998 Nitrate 532 mg/L 1 Chinle Mixing Zone CW9 9/16/1999 Uranium 0.0111 mg/L 1 Chinle Mixing Zone CW9 9/16/1999 Uranium 0.005 mg/L 1 Chinle Mixing Zone CW9 9/16/1999 Nitrate 0.03 mg/L 1 Chinle Mixing Zone CW9 9/16/1999 Nitrate 0.1 mg/L 0 Chinle Mixing Zone CW9 9/16/1999 Nitrate 0.1 mg/L 0 Chinle Mixing Zone CW9 9/16/1999 Nitrate 0.1 mg/L 0 Chinle Mixing Zone CW9 8/30/2000 Selenium 0.005 mg/L 0 Chinle Mixing Zone CW9 8/30/2000 Nitrate | Chinle Mixing Zone | CW9 | 9/4/1997 | Nitrate | 0.1 | mg/L | 0 |
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| Chinle Mixing Zone | Chinle Mixing Zone | CW9 | | | 0.005 | | 0 |
| Chinle Mixing Zone | | | | | | | 1 |
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| Lower Chinle Non-mixing Zone CW26 11/27/1995 TDS 1317 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 TDS 1540 mg/L 1 Lower Chinle Non-mixing Zone CW26 5/30/1997 TDS 1510 mg/L 1 Lower Chinle Non-mixing Zone CW26 5/20/1998 TDS 1490 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/4/1998 TDS 1650 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/3/1999 TDS 1635 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/21/2000 TDS 1380 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/6/2001 TDS 1380 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/26/2002 TDS 1410 mg/L 1 | | | | | | - | |
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| Lower Chinle Non-mixing Zone CW26 5/30/1997 TDS 1510 mg/L 1 Lower Chinle Non-mixing Zone CW26 5/20/1998 TDS 1490 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/4/1998 TDS 1650 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/3/1999 TDS 1635 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/21/2000 TDS 1380 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/6/2001 TDS 1380 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/26/2002 TDS 1410 mg/L 1 | Ţ | | | | | | |
| Lower Chinle Non-mixing Zone CW26 5/20/1998 TDS 1490 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/4/1998 TDS 1650 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/3/1999 TDS 1635 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/21/2000 TDS 1380 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/6/2001 TDS 1380 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/26/2002 TDS 1410 mg/L 1 | | | | | | | |
| Lower Chinle Non-mixing Zone CW26 11/4/1998 TDS 1650 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/3/1999 TDS 1635 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/21/2000 TDS 1380 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/6/2001 TDS 1380 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/26/2002 TDS 1410 mg/L 1 | | | | | | | |
| Lower Chinle Non-mixing Zone CW26 6/3/1999 TDS 1635 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/21/2000 TDS 1380 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/6/2001 TDS 1380 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/26/2002 TDS 1410 mg/L 1 | | | | | | | |
| Lower Chinle Non-mixing Zone CW26 6/21/2000 TDS 1380 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/6/2001 TDS 1380 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/26/2002 TDS 1410 mg/L 1 | Lower Chinle Non-mixing Zone | | | | | | 1 |
| Lower Chinle Non-mixing Zone CW26 6/21/2000 TDS 1380 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/6/2001 TDS 1380 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/26/2002 TDS 1410 mg/L 1 | Lower Chinle Non-mixing Zone | CW26 | 6/3/1999 | TDS | 1635 | mg/L | 1 |
| Lower Chinle Non-mixing Zone CW26 6/6/2001 TDS 1380 mg/L 1 Lower Chinle Non-mixing Zone CW26 6/26/2002 TDS 1410 mg/L 1 | | CW26 | 6/21/2000 | TDS | 1380 | | 1 |
| Lower Chinle Non-mixing Zone CW26 6/26/2002 TDS 1410 mg/L 1 | Ţ | | | TDS | | | 1 |
| | | | | | | | 1 |
| | Lower Chinle Non-mixing Zone | CW29 | 6/5/1995 | TDS | 1417 | mg/L | 1 |

| Lower Chine Non-mixing Zone CW29 6/7/1995 TDS 1059 mg/L 1 | Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|---|---------------------------------------|---------|---------------|----------|---------------|-------|----------|
| Lower Chinle Non-mixing Zone CW29 11/13/1995 TDS 1148 mg/L 1 | Lower Chinle Non-mixing Zone | CW29 | 6/7/1995 | TDS | 1059 | mg/L | 1 |
| Lower Chinle Non-mixing Zone CW29 10/14/1996 TDS 1160 mg/L 1 | Lower Chinle Non-mixing Zone | CW29 | 6/9/1995 | TDS | 1182 | mg/L | 1 |
| Lower Chinle Non-mixing Zone CW29 5/20/1997 TDS 1130 mg/L 1 | Lower Chinle Non-mixing Zone | CW29 | 11/13/1995 | TDS | 1148 | mg/L | 1 |
| Lower Chinle Non-mixing Zone CW29 5/30/1997 TDS 1130 mg/L 1 | Lower Chinle Non-mixing Zone | CW29 | 10/14/1996 | TDS | 1160 | mg/L | 1 |
| Lower Chinle Non-mixing Zone CW29 | | CW29 | 5/30/1997 | TDS | 1100 | mg/L | 1 |
| Lower Chinle Non-mixing Zone CW29 5/19/1998 TDS 1080 mg/L 1 | <u> </u> | CW29 | 11/8/1997 | TDS | 1130 | - | 1 |
| Lower Chinle Non-mixing Zone CW29 6/3/1999 TDS 1140 mg/L 1 | • | | | | | | 1 |
| Lower Chinle Non-mixing Zone CW29 66/3/1999 TDS 1140 mg/L 1 | | | | | | | 1 |
| Lower Chinle Non-mixing Zone | Ţ | | | | | | |
| Lower Chinle Non-mixing Zone | | | | | | - | |
| Lower Chinle Non-mixing Zone | Ţ | | | | | | |
| Lower Chinle Non-mixing Zone | | | | | | | |
| Lower Chinle Non-mixing Zone | • | | | | | - | |
| Lower Chinle Non-mixing Zone | | | | | | | _ |
| Lower Chinle Non-mixing Zone CW31 11/19/1998 TDS 1580 mg/L 1 | • | | | | | - | |
| Lower Chinle Non-mixing Zone | Ţ | | | | | | |
| Lower Chinle Non-mixing Zone CW31 6/21/2000 TDS 1850 mg/L 1 | · · · · · · · · · · · · · · · · · · · | | | | | | |
| Lower Chinle Non-mixing Zone | • | | | | | | |
| Lower Chinle Non-mixing Zone CW31 6/26/2002 TDS 1800 mg/L 1 | | | | | | | |
| Lower Chinle Non-mixing Zone CW32 9/13/1995 TDS 1662 mg/L 1 | Ţ | | | | | | |
| Lower Chinle Non-mixing Zone | • | | | | | • | |
| Lower Chinle Non-mixing Zone | | | | | | - | |
| Lower Chinle Non-mixing Zone | | | | _ | | | |
| Lower Chinle Non-mixing Zone | Ţ | | | | | mg/L | |
| Lower Chinle Non-mixing Zone CW32 11/18/1997 TDS 4150 mg/L 1 | | | 10/17/1996 | TDS | 3930 | mg/L | 1 |
| Lower Chinle Non-mixing Zone CW32 5/20/1998 TDS 4090 mg/L 1 | Lower Chinle Non-mixing Zone | CW32 | 6/3/1997 | TDS | 4070 | mg/L | 1 |
| Lower Chinle Non-mixing Zone CW32 11/19/1998 TDS 4140 mg/L 1 | Lower Chinle Non-mixing Zone | CW32 | | TDS | 4150 | mg/L | 1 |
| Lower Chinle Non-mixing Zone CW32 6/21/2000 TDS 3910 mg/L 1 | Lower Chinle Non-mixing Zone | CW32 | 5/20/1998 | TDS | 4090 | mg/L | 1 |
| Lower Chinle Non-mixing Zone CW32 6/7/2001 TDS 4180 mg/L 1 | Lower Chinle Non-mixing Zone | CW32 | 11/19/1998 | TDS | 4140 | mg/L | 1 |
| Lower Chinle Non-mixing Zone CW32 6/26/2002 TDS 4180 mg/L 1 | Lower Chinle Non-mixing Zone | CW32 | 6/21/2000 | TDS | 3910 | mg/L | 1 |
| Lower Chinle Non-mixing Zone CW32 6/26/2002 TDS 4180 mg/L 1 | Lower Chinle Non-mixing Zone | CW32 | 6/7/2001 | TDS | 4180 | mg/L | 1 |
| Lower Chinle Non-mixing Zone CW33 9/8/1995 TDS 3692 mg/L 1 | Ţ | CW32 | 6/26/2002 | TDS | 4180 | | 1 |
| Lower Chinle Non-mixing Zone CW33 9/12/1995 TDS 4059 mg/L 1 | Ţ | CW33 | 9/8/1995 | TDS | 3692 | | 1 |
| Lower Chinle Non-mixing Zone CW33 10/17/1996 TDS 3500 mg/L 1 | | | | TDS | 4059 | - | 1 |
| Lower Chinle Non-mixing Zone CW33 11/18/1997 TDS 3670 mg/L 1 | | | | | 3500 | | 1 |
| Lower Chinle Non-mixing Zone CW33 11/24/1998 TDS 3920 mg/L 1 | | | | | | | 1 |
| Lower Chinle Non-mixing Zone CW33 6/2/1999 TDS 3980 mg/L 1 Lower Chinle Non-mixing Zone CW33 6/2/1/2000 TDS 3990 mg/L 1 Lower Chinle Non-mixing Zone CW33 6/2/2001 TDS 4100 mg/L 1 Lower Chinle Non-mixing Zone CW33 6/26/2002 TDS 3770 mg/L 1 Lower Chinle Non-mixing Zone CW41 10/18/1996 TDS 811 mg/L 1 Lower Chinle Non-mixing Zone CW41 1/16/1997 TDS 816 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/17/1997 TDS 851 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/17/1997 TDS 810 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/13/1998 TDS 805 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.192 mg/L 1 Lower Chinle Non-mixing Zone < | | | | | | | |
| Lower Chinle Non-mixing Zone CW33 6/21/2000 TDS 3990 mg/L 1 Lower Chinle Non-mixing Zone CW33 6/7/2001 TDS 4100 mg/L 1 Lower Chinle Non-mixing Zone CW33 6/26/2002 TDS 3770 mg/L 1 Lower Chinle Non-mixing Zone CW41 10/18/1996 TDS 811 mg/L 1 Lower Chinle Non-mixing Zone CW41 1/16/1997 TDS 816 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/17/1997 TDS 851 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/17/1997 TDS 810 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/13/1998 TDS 805 mg/L 1 Lower Chinle Non-mixing Zone CW41 9/28/1998 TDS 864 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.192 mg/L 1 Lower Chinle Non-mixing Zone <t< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td></t<> | | | | | | - | |
| Lower Chinle Non-mixing Zone CW33 6/7/2001 TDS 4100 mg/L 1 Lower Chinle Non-mixing Zone CW33 6/26/2002 TDS 3770 mg/L 1 Lower Chinle Non-mixing Zone CW41 10/18/1996 TDS 811 mg/L 1 Lower Chinle Non-mixing Zone CW41 1/16/1997 TDS 816 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/17/1997 TDS 851 mg/L 1 Lower Chinle Non-mixing Zone CW41 9/29/1997 TDS 810 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/13/1998 TDS 805 mg/L 1 Lower Chinle Non-mixing Zone CW41 9/28/1998 TDS 864 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.192 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.236 mg/L 1 Lower Chinle Non-mixing Zone | Ţ | | | | | | |
| Lower Chinle Non-mixing Zone CW33 6/26/2002 TDS 3770 mg/L 1 Lower Chinle Non-mixing Zone CW41 10/18/1996 TDS 811 mg/L 1 Lower Chinle Non-mixing Zone CW41 1/16/1997 TDS 816 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/17/1997 TDS 851 mg/L 1 Lower Chinle Non-mixing Zone CW41 9/29/1997 TDS 810 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/13/1998 TDS 805 mg/L 1 Lower Chinle Non-mixing Zone CW41 9/28/1998 TDS 864 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.192 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.236 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Sulfate 635 mg/L 1 Lower Chinle Non-mixing Zone | | | | | | | · |
| Lower Chinle Non-mixing Zone CW41 10/18/1996 TDS 811 mg/L 1 Lower Chinle Non-mixing Zone CW41 1/16/1997 TDS 816 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/17/1997 TDS 851 mg/L 1 Lower Chinle Non-mixing Zone CW41 9/29/1997 TDS 810 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/13/1998 TDS 805 mg/L 1 Lower Chinle Non-mixing Zone CW41 9/28/1998 TDS 864 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.192 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Sulfate 635 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.236 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.246 mg/L 1 Lower Chinle Non-mixing Zone <td>Ţ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | Ţ | | | | | | |
| Lower Chinle Non-mixing Zone CW41 1/16/1997 TDS 816 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/17/1997 TDS 851 mg/L 1 Lower Chinle Non-mixing Zone CW41 9/29/1997 TDS 810 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/13/1998 TDS 805 mg/L 1 Lower Chinle Non-mixing Zone CW41 9/28/1998 TDS 864 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.192 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Sulfate 635 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.236 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Sulfate 635 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.236 mg/L 1 Lower Chinle Non-mixing Zone< | | | | | | | |
| Lower Chinle Non-mixing Zone CW41 4/17/1997 TDS 851 mg/L 1 Lower Chinle Non-mixing Zone CW41 9/29/1997 TDS 810 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/13/1998 TDS 805 mg/L 1 Lower Chinle Non-mixing Zone CW41 9/28/1998 TDS 864 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.192 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Sulfate 635 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.236 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Sulfate 635 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.236 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.246 mg/L 1 Lower Chinle Non-mixing | • | | | | | _ | |
| Lower Chinle Non-mixing Zone CW41 9/29/1997 TDS 810 mg/L 1 Lower Chinle Non-mixing Zone CW41 4/13/1998 TDS 805 mg/L 1 Lower Chinle Non-mixing Zone CW41 9/28/1998 TDS 864 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.192 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Sulfate 635 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.236 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Sulfate 635 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.236 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.246 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Selenium 0.246 mg/L 1 Lower Chinle No | | | | | | | |
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| Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.192 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Sulfate 635 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Chlorine 101 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.236 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Sulfate 635 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Chlorine 101 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Selenium 0.246 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Sulfate 596 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 Selenium 0.332 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 Selenium 0.332 mg/L 1 | • | | | | | _ | |
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| Lower Chinle Non-mixing Zone CW26 4/4/1995 Chlorine 101 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.236 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Sulfate 635 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Chlorine 101 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Selenium 0.246 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Sulfate 596 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Chlorine 92 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 Selenium 0.332 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 Sulfate 697 mg/L 1 | | | | | | _ | |
| Lower Chinle Non-mixing Zone CW26 4/4/1995 Selenium 0.236 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Sulfate 635 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Chlorine 101 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Selenium 0.246 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Sulfate 596 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Chlorine 92 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 Selenium 0.332 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 Sulfate 697 mg/L 1 | | | | | | - | |
| Lower Chinle Non-mixing Zone CW26 4/4/1995 Sulfate 635 mg/L 1 Lower Chinle Non-mixing Zone CW26 4/4/1995 Chlorine 101 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Selenium 0.246 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Sulfate 596 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Chlorine 92 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 Selenium 0.332 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 Sulfate 697 mg/L 1 | Ţ | | | | | | |
| Lower Chinle Non-mixing Zone CW26 4/4/1995 Chlorine 101 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Selenium 0.246 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Sulfate 596 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Chlorine 92 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 Selenium 0.332 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 Sulfate 697 mg/L 1 | | | | | | | |
| Lower Chinle Non-mixing Zone CW26 11/27/1995 Selenium 0.246 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Sulfate 596 mg/L 1 Lower Chinle Non-mixing Zone CW26 11/27/1995 Chlorine 92 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 Selenium 0.332 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 Sulfate 697 mg/L 1 | | | | | | | |
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| Lower Chinle Non-mixing Zone CW26 11/27/1995 Chlorine 92 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 Selenium 0.332 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 Sulfate 697 mg/L 1 | Ţ | | | | | | |
| Lower Chinle Non-mixing Zone CW26 8/28/1996 Selenium 0.332 mg/L 1 Lower Chinle Non-mixing Zone CW26 8/28/1996 Sulfate 697 mg/L 1 | | | | | | mg/L | 1 |
| Lower Chinle Non-mixing Zone CW26 8/28/1996 Sulfate 697 mg/L 1 | Lower Chinle Non-mixing Zone | CW26 | 11/27/1995 | Chlorine | 92 | mg/L | 1 |
| Lower Chinle Non-mixing Zone CW26 8/28/1996 Sulfate 697 mg/L 1 | | CW26 | 8/28/1996 | Selenium | 0.332 | | 1 |
| | | CW26 | | Sulfate | 697 | | 1 |
| | Lower Chinle Non-mixing Zone | CW26 | 5/30/1997 | Selenium | 0.337 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|------------------------------|---------|---------------|----------|---------------|-------|----------|
| Lower Chinle Non-mixing Zone | CW26 | 5/30/1997 | Sulfate | 720 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 5/30/1997 | Chlorine | 120 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 11/19/1997 | Selenium | 0.213 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 11/19/1997 | Sulfate | 679 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 11/19/1997 | Chlorine | 110 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 5/20/1998 | Selenium | 0.272 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 5/20/1998 | Sulfate | 699 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 11/4/1998 | Selenium | 0.317 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 11/4/1998 | Sulfate | 780 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 11/4/1998 | Chlorine | 139 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 6/3/1999 | Selenium | 0.362 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 6/3/1999 | Sulfate | 743.5 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 6/21/2000 | Selenium | 0.2619 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 6/21/2000 | Sulfate | 664 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 6/6/2001 | Selenium | 0.247 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 6/6/2001 | Sulfate | 607 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 6/26/2002 | Selenium | 0.224 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW26 | 6/26/2002 | Sulfate | 587 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/5/1995 | Selenium | 0.011 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/5/1995 | Sulfate | 519 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/5/1995 | Chlorine | 67 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/7/1995 | Selenium | 0.034 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/7/1995 | Sulfate | 535 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/7/1995 | Chlorine | 62 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/9/1995 | Selenium | 0.079 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/9/1995 | Sulfate | 546 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/9/1995 | Chlorine | 57.3 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 11/13/1995 | Selenium | 0.023 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 11/13/1995 | Sulfate | 531 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 11/13/1995 | Chlorine | 61 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 10/14/1996 | Selenium | 0.016 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 10/14/1996 | Sulfate | 568 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 10/14/1996 | Chlorine | 56.8 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 5/30/1997 | Selenium | 0.014 | mg/L | 0 |
| Lower Chinle Non-mixing Zone | CW29 | 5/30/1997 | Sulfate | 537 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 11/8/1997 | Selenium | 0.017 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 11/8/1997 | Sulfate | 537 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 11/8/1997 | Chlorine | 59 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 5/19/1998 | Selenium | 0.028 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 5/19/1998 | Sulfate | 543 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 11/5/1998 | Selenium | 0.012 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 11/5/1998 | Sulfate | 517 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 11/5/1998 | Chlorine | 60 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/3/1999 | Selenium | 0.02 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/3/1999 | Sulfate | 526 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/21/2000 | Selenium | 0.02716 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/21/2000 | Sulfate | 557 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/6/2001 | Selenium | 0.03 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/6/2001 | Sulfate | 503 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/24/2002 | Selenium | 0.031 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW29 | 6/24/2002 | Sulfate | 479 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW31 | 9/15/1995 | Selenium | 0.01 | mg/L | 0 |
| Lower Chinle Non-mixing Zone | CW31 | 9/15/1995 | Sulfate | 1999 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW31 | 9/15/1995 | Chlorine | 137 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW31 | 10/17/1996 | Selenium | 0.005 | mg/L | 0 |
| Lower Chinle Non-mixing Zone | CW31 | 10/17/1996 | Sulfate | 1290 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW31 | 10/17/1996 | Chlorine | 82 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW31 | 11/14/1997 | Selenium | 0.005 | mg/L | 0 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|------------------------------|---------|---------------|----------|---------------|-------|----------|
| Lower Chinle Non-mixing Zone | CW31 | 11/14/1997 | Sulfate | 759 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW31 | 11/19/1998 | Selenium | 0.005 | mg/L | 0 |
| Lower Chinle Non-mixing Zone | CW31 | 11/19/1998 | Sulfate | 865 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW31 | 6/2/1999 | Selenium | 0.005 | mg/L | 0 |
| Lower Chinle Non-mixing Zone | CW31 | 6/2/1999 | Sulfate | 878 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW31 | 6/21/2000 | Selenium | 0.005 | mg/L | 0 |
| Lower Chinle Non-mixing Zone | CW31 | 6/21/2000 | Sulfate | 1070 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW31 | 6/7/2001 | Selenium | 0.005 | mg/L | 0 |
| Lower Chinle Non-mixing Zone | CW31 | 6/7/2001 | Sulfate | 1090 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW31 | 6/26/2002 | Selenium | 0.005 | mg/L | 0 |
| Lower Chinle Non-mixing Zone | CW31 | 6/26/2002 | Sulfate | 908 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 9/13/1995 | Sulfate | 729 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 9/13/1995 | Chlorine | 204 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 12/11/1995 | Selenium | 0.01 | mg/L | 0 |
| Lower Chinle Non-mixing Zone | CW32 | 12/11/1995 | Sulfate | 1164 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 12/11/1995 | Chlorine | 380 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 12/15/1995 | Selenium | 0.01 | mg/L | 0 |
| Lower Chinle Non-mixing Zone | CW32 | 12/15/1995 | Sulfate | 412 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 12/15/1995 | Chlorine | 120 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 10/17/1996 | Selenium | 0.005 | mg/L | 0 |
| Lower Chinle Non-mixing Zone | CW32 | 10/17/1996 | Sulfate | 1680 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 10/17/1996 | Chlorine | 634 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 6/3/1997 | Selenium | 0.005 | mg/L | 0 |
| Lower Chinle Non-mixing Zone | CW32 | 6/3/1997 | Sulfate | 1790 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 11/18/1997 | Selenium | 0.009 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 11/18/1997 | Sulfate | 1814 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 11/18/1997 | Chlorine | 657 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 5/20/1998 | Selenium | 0.009 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 5/20/1998 | Sulfate | 1800 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 11/19/1998 | Selenium | 0.021 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 11/19/1998 | Sulfate | 1550 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 11/19/1998 | Chlorine | 633 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 6/2/1999 | Selenium | 0.018 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 6/2/1999 | Sulfate | 1800 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 6/21/2000 | Selenium | 0.02068 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 6/21/2000 | Sulfate | 1690 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 6/7/2001 | Selenium | 0.018 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 6/7/2001 | Sulfate | 1570 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 6/26/2002 | Selenium | 0.018 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW32 | 6/26/2002 | Sulfate | 1570 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 9/8/1995 | Selenium | 0.01 | mg/L | 0 |
| Lower Chinle Non-mixing Zone | CW33 | 9/8/1995 | Sulfate | 1492 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 9/8/1995 | Chlorine | 539 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 9/12/1995 | Selenium | 0.01 | mg/L | 0 |
| Lower Chinle Non-mixing Zone | CW33 | 9/12/1995 | Sulfate | 1649 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 9/12/1995 | Chlorine | 606 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 10/17/1996 | Selenium | 0.005 | mg/L | 0 |
| Lower Chinle Non-mixing Zone | CW33 | 10/17/1996 | Sulfate | 1470 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 10/17/1996 | Chlorine | 435 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 11/18/1997 | Selenium | 0.01 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 11/18/1997 | Sulfate | 1760 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 11/24/1998 | Selenium | 0.013 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 11/24/1998 | Sulfate | 1910 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 6/2/1999 | Selenium | 0.014 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 6/2/1999 | Sulfate | 2070 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 6/21/2000 | Selenium | 0.01676 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 6/21/2000 | Sulfate | 2140 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 6/7/2001 | Selenium | 0.012 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|-------------------------------|---------|---------------|----------|---------------|-------|----------|
| Lower Chinle Non-mixing Zone | CW33 | 6/7/2001 | Sulfate | 2080 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 6/26/2002 | Selenium | 0.01 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW33 | 6/26/2002 | Sulfate | 1730 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 10/18/1996 | Selenium | 0.016 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 10/18/1996 | Sulfate | 314 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 10/18/1996 | Chlorine | 49 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 1/16/1997 | Selenium | 0.024 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 1/16/1997 | Sulfate | 297 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 1/16/1997 | Chlorine | 46 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 4/17/1997 | Selenium | 0.008 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 4/17/1997 | Sulfate | 284 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 4/17/1997 | Chlorine | 51.4 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 9/29/1997 | Selenium | 0.014 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 9/29/1997 | Sulfate | 287 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 4/13/1998 | Selenium | 0.012 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 4/13/1998 | Sulfate | 300 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 4/13/1998 | Chlorine | 53 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 9/28/1998 | Selenium | 0.009 | mg/L | 1 |
| Lower Chinle Non-mixing Zone | CW41 | 9/28/1998 | Sulfate | 303 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 8/18/1981 | TDS | 1470 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 10/8/1981 | TDS | 1490 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 11/19/1981 | TDS | 1500 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 2/1/1982 | TDS | 1490 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 2/15/1982 | TDS | 1520 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 3/2/1982 | TDS | 1470 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 5/21/1982 | TDS | 1420 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 11/16/1982 | TDS | 1430 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 2/14/1983 | TDS | 1490 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 4/15/1983 | TDS | 1460 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 6/27/1983 | TDS | 1353 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 6/27/1983 | TDS | 1410 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 8/31/1983 | TDS | 1370 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 12/19/1983 | TDS | 1370 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 1/1/1984 | TDS | 1470 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 7/19/1984 | TDS | 1220 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 11/2/1984 | TDS | 1440 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 3/19/1986 | TDS | 560 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 5/20/1986 | TDS | 740 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 7/9/1986 | TDS | 820 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 12/31/1986 | TDS | 720 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 12/19/1989 | TDS | 1240 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 6/26/1990 | TDS | 1400 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 6/27/1991 | TDS | 1570 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 12/10/1992 | TDS | 1470 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 7/12/1994 | TDS | 1173 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 7/12/1994 | TDS | 1172 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 1/21/1982 | TDS | 1780 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 1/28/1982 | TDS | 1600 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 3/9/1994 | TDS | 1326 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 2/26/2002 | TDS | 1240 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 8/21/2002 | TDS | 1320 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 4/23/2003 | TDS | 1320 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 2/1/1995 | TDS | 1636 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 2/1/1995 | TDS | 1486 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 2/17/1995 | TDS | 1316 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 3/2/1995 | TDS | 1306 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/22/1982 | TDS | 1970 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/2/1982 | TDS | 1670 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|--|------------|-----------------------|------------|---------------|--------------|----------|
| Middle Chinle Non-mixing Zone | CW2 | 7/15/1982 | TDS | 1210 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/20/1983 | TDS | 1150 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/14/1983 | TDS | 1180 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 6/27/1983 | TDS | 992 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 6/27/1983 | TDS | 1100 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 9/12/1983 | TDS | 1090 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/26/1983 | TDS | 1160 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/5/1984 | TDS | 1330 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/4/1984 | TDS | 1270 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 6/15/1984 | TDS | 1310 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/12/1984 | TDS | 1370 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/16/1985 | TDS | 1040 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/10/1985 | TDS | 1170 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/22/1985 | TDS | 1200 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/3/1985 | TDS | 1100 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/9/1986 | TDS | 1090 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/8/1986 | TDS | 1050 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/15/1986 | TDS | 1190 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/13/1986 | TDS | 1110 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/8/1987 | TDS | 1010 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/9/1987 | TDS | 860 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/17/1987 | TDS | 1100 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/15/1987 | TDS | 890 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/19/1987 | TDS | 1166 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/19/1987 | TDS | 910 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/26/1988 | TDS | 800 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/20/1988 | TDS | 750 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/20/1988 | TDS | 720 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 12/15/1988 | TDS | 1140 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/23/1989 | TDS | 930 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/24/1989 | TDS | 1230 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 9/20/1989 | TDS | 1110 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 12/1/1989 | TDS | 1020 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/15/1990 | TDS | 1080 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/8/1990 | TDS | 990 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/7/1990 | TDS | 1140 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/27/1990 | TDS | 900 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/27/1990 | TDS | 988 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/19/1991 | TDS | 1220 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/16/1991 | TDS | 1080 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/14/1991 | TDS | 996 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/14/1991 | TDS | 1120 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/26/1991 | TDS | 1130 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/19/1992 | TDS | 1100 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/20/1992 | TDS | 1160 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 CW2 | 7/30/1992 | TDS TDS | 1150 1072 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/30/1992 | TDS | 1180 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | | 11/4/1992 | | | mg/L | |
| Middle Chinle Non-mixing Zone | CW2 CW2 | 2/8/1993 | TDS | 1140 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/4/1993 | TDS | 1100 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/12/1993 | TDS TDS | 1110 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/1/1993 2/2/1994 | TDS | 1087 1071 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | CW2 | 3/10/1994 | TDS | 1186 | mg/L mg/L | 1 |
| - | CW2 | 5/3/1994 | TDS | 1132 | - | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | CW2 | 8/2/1994 | TDS | 1132 | mg/L mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | CW2 | 11/2/1994 | TDS | 1104 | mg/L | 1 |
| - | CW2 | 2/2/1995 | TDS | 1138 | - | 1 |
| Middle Chinle Non-mixing Zone | CVVZ | 21211990 | פחו | 1130 | mg/L | ı |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|---|--------------|-------------------------|------------|---------------|--------------|----------|
| Middle Chinle Non-mixing Zone | CW2 | 2/3/1995 | TDS | 1118 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/5/1995 | TDS | 1168 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/2/1995 | TDS | 1239 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/15/1995 | TDS | 1295 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/12/1996 | TDS | 1425 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/12/1996 | TDS | 1451 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/14/1996 | TDS | 1385 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/29/1996 | TDS | 1277 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/3/1997 | TDS | 1280 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/29/1997 | TDS | 1360 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/28/1997 | TDS | 1300 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/13/1997 | TDS | 1400 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/10/1998 | TDS | 1220 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/6/1998 | TDS | 1220 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/5/1998 | TDS | 1450 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/28/1998 | TDS | 1330 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/4/1999 | TDS | 1750 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/20/1999 | TDS | 1290 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/17/1999 | TDS | 1240 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/4/1999 | TDS | 1510 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/2/2000 | TDS | 1160 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/2/2000 | TDS | 1240 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/2/2000 | TDS | 1440 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/28/2000 | TDS | 1180 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/30/2001 | TDS | 935 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/26/2002 | TDS | 1040 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/15/2002 | TDS | 947 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/21/2002 | TDS | 1050 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/23/2003 | TDS | 1000 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 4/5/1995 | TDS | 1066 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | CW28 CW28 | 4/13/1995 11/21/1995 | TDS TDS | 1004 1078 | mg/L mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 8/27/1996 | TDS | 944 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 11/19/1997 | TDS | 1250 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 11/4/1998 | TDS | 1350 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/26/1999 | TDS | 1355 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/20/2000 | TDS | 1410 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/24/2001 | TDS | 1370 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/23/2002 | TDS | 1360 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 4/28/2003 | TDS | 1060 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/16/1980 | TDS | 1118 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 8/18/1981 | TDS | 1480 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 9/21/1981 | TDS | 1510 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 10/8/1981 | TDS | 1450 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 11/19/1981 | TDS | 1480 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 12/31/1981 | TDS | 1820 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 2/15/1982 | TDS | 1470 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 3/2/1982 | TDS | 1420 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/23/1982 | TDS | 1410 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 11/18/1982 | TDS | 1380 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 2/14/1983 | TDS | 1450 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 4/15/1983 | TDS | 1560 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/27/1983 | TDS | 1398 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/27/1983 | TDS | 1500 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 8/31/1983 | TDS | 1350 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 12/19/1983 | TDS | 1420 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 1/20/1984 | TDS | 1420 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 4/26/1984 | TDS | 1290 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|--|---------|------------------------|------------|---------------|--------------|----------|
| Middle Chinle Non-mixing Zone | WCW | 7/18/1984 | TDS | 1240 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 11/1/1984 | TDS | 1530 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 1/25/1985 | TDS | 1170 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 4/22/1985 | TDS | 1520 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 7/18/1985 | TDS | 1510 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 10/18/1985 | TDS | 1490 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 1/30/1986 | TDS | 1190 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 4/29/1986 | TDS | 1070 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 7/30/1986 | TDS | 1510 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 12/3/1986 | TDS | 1210 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 3/19/1987 | TDS | 1410 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 7/1/1987 | TDS | 1530 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 9/30/1987 | TDS | 1500 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 2/29/1988 | TDS | 1440 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/27/1988 | TDS | 1520 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 8/30/1988 | TDS | 1320 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 10/12/1988 | TDS | 1170 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 4/7/1989 | TDS | 1380 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 7/5/1989 | TDS | 1550 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 10/20/1989 | TDS | 1540 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/25/1990 | TDS | 1440 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/10/1991 | TDS | 1510 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 9/17/1992 | TDS | 1550 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/8/1993 | TDS | 1550 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/15/1994 | TDS | 1508 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/15/1994 | TDS | 1451 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 10/25/1994 | TDS | 1473 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/22/1996 5/22/1997 | TDS TDS | 1470 1460 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 5/6/1998 | TDS | 1470 | mg/L mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/11/1999 | TDS | 1475 | - | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/16/2000 | TDS | 1560 | mg/L mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 12/7/1979 | Selenium | 0.014 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 12/7/1979 | Sulfate | 759 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 12/2/1980 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | ACW | 12/2/1980 | Selenium | 0.000 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | ACW | 12/2/1980 | Sulfate | 799 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 8/18/1981 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | ACW | 8/18/1981 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | ACW | 8/18/1981 | Sulfate | 929 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 10/8/1981 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | ACW | 10/8/1981 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | ACW | 10/8/1981 | Sulfate | 704 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 11/19/1981 | Uranium | 0.01696 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 11/19/1981 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | ACW | 11/19/1981 | Sulfate | 787 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 2/1/1982 | Uranium | 0.00848 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 2/1/1982 | Selenium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 2/1/1982 | Sulfate | 866 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 2/15/1982 | Uranium | 0.06784 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 2/15/1982 | Selenium | 0.03 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 2/15/1982 | Sulfate | 844 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 3/2/1982 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | ACW | 3/2/1982 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | ACW | 3/2/1982 | Sulfate | 797 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 5/21/1982 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | ACW | 5/21/1982 | Selenium | 0.03 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 5/21/1982 | Sulfate | 752 | mg/L | 1 |

| Middle Chinle Non-mixing Zone ACW 11/16/1982 Selenium 0.05 mg/L 1 1 1 1 1 1 1 1 1 | Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|---|--|---------|---------------|----------|---------------|-------|----------|
| Middle Chinle Non-mixing Zone ACW 11/16/1982 Sulfate 691 mg/L 1 Middle Chinle Non-mixing Zone ACW 2/14/1983 Uranium 0.00848 mg/L 0 Middle Chinle Non-mixing Zone ACW 2/14/1983 Selenium 0.01 mg/L 0 Middle Chinle Non-mixing Zone ACW 4/15/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 4/15/1983 Selenium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Selenium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Uranium 0.067 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Uranium 0.00176 mg/L 1 | Middle Chinle Non-mixing Zone | ACW | 11/16/1982 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone ACW 2/14/1983 Uranium 0.00848 mg/L 0 Middle Chinle Non-mixing Zone ACW 2/14/1983 Selenium 0.01 mg/L 0 Middle Chinle Non-mixing Zone ACW 4/15/1983 Suffate 7.66 mg/L 1 Middle Chinle Non-mixing Zone ACW 4/15/1983 Selenium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 4/15/1983 Selenium 0.00 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Selenium 0.00 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Uranium 0.038 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 730 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 730 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Sulfate 730 mg/L 1 <t< td=""><td>Middle Chinle Non-mixing Zone</td><td>ACW</td><td>11/16/1982</td><td>Selenium</td><td>0.05</td><td>mg/L</td><td>1</td></t<> | Middle Chinle Non-mixing Zone | ACW | 11/16/1982 | Selenium | 0.05 | mg/L | 1 |
| Middle Chinle Non-mixing Zone ACW 2/14/1983 Selenium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 2/14/1983 Suffate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 4/15/1983 Selenium 0.00848 mg/L 1 Middle Chinle Non-mixing Zone ACW 4/15/1983 Selenium 0.008 mg/L 1 Middle Chinle Non-mixing Zone ACW 4/15/1983 Selenium 0.008 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Uranium 0.038 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Selenium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Sulfate 730 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Sulfate 730 mg/L 1 | Middle Chinle Non-mixing Zone | ACW | 11/16/1982 | Sulfate | 691 | mg/L | 1 |
| Middle Chinle Non-mixing Zone ACW 27/14/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 4/15/1983 Uranium 0.00848 mg/L 1 Middle Chinle Non-mixing Zone ACW 4/15/1983 Selenium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 4/15/1983 Selenium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Selenium 0.006 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Selenium 0.008 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Uranium 0.038 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Uranium 0.06784 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate Control Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate Control Middle Chinle Non-mixing Zone ACW 8/31/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Selenium 0.006784 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1984 Selenium 0.020 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1984 Selenium 0.01696 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1984 Selenium 0.01696 mg/L 1 Middle | Middle Chinle Non-mixing Zone | ACW | 2/14/1983 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone ACW 4/15/1983 Urantum 0.00848 mg/L 0 Middle Chinle Non-mixing Zone ACW 4/15/1983 Selenium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 4/15/1983 Sulfate 755 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Uranium 0.038 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Uranium 0.038 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Selenium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 673 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Sulfate 730 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 | Middle Chinle Non-mixing Zone | ACW | 2/14/1983 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone ACW A/15/1983 Selenium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 4/15/1983 Selenium 0.008 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Selenium 0.008 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Uranium 0.08748 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Suffate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Suffate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/27/1983 Suffate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Uranium 0.010176 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Uranium 0.006784 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Suffate 746 mg/L 1 | Middle Chinle Non-mixing Zone | ACW | 2/14/1983 | Sulfate | 746 | mg/L | 1 |
| Middle Chinle Non-mixing Zone ACW 4/15/1983 Sulfate 750 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Selenium 0.006 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Uranium 0.038 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Selenium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Uranium 0.010176 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/1984 Uranium 0.02 mg/L 1 | Middle Chinle Non-mixing Zone | ACW | 4/15/1983 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone ACW 6/27/1983 Selenium 0.006 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Uranium 0.038 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Selenium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/27/1983 Sulfate 730 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/19/1984 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/19/1984 Selenium 0.01/19/19/19/19/19/19/19/19/19/19/19/19/19 | Middle Chinle Non-mixing Zone | ACW | 4/15/1983 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone ACW 6/27/1983 Uranium 0.038 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Selenium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/21/1983 Sulfate 730 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1984 Uranium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/1984 Selenium 0.02 mg/L 1 Middl | Middle Chinle Non-mixing Zone | ACW | 4/15/1983 | Sulfate | 750 | mg/L | 1 |
| Middle Chinle Non-mixing Zone ACW 6/27/1983 Uranium 0.06784 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Selenium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Sulfate 730 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Uranium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/1984 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/1984 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/1984 Selenium 0.02 mg/L 1 M | Middle Chinle Non-mixing Zone | ACW | 6/27/1983 | Selenium | 0.006 | mg/L | 1 |
| Middle Chinle Non-mixing Zone ACW 6/27/1983 Selenium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 730 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Uranium 0.010176 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Uranium 0.006784 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/1984 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/1984 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/1984 Sulfate 759 mg/L 1 M | Middle Chinle Non-mixing Zone | | 6/27/1983 | Uranium | 0.038 | mg/L | 1 |
| Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 657 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Sulfate 7:30 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 1/1/1984 Uranium 0.01699 mg/L 1 Middle Chinle Non-mixing Zone ACW 1/1/1984 Sulfate 759 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/19/1984 Selenium 0.02 mg/L 1 | Middle Chinle Non-mixing Zone | | | Uranium | 0.06784 | mg/L | 1 |
| Middle Chinle Non-mixing Zone ACW 6/27/1983 Sulfate 730 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Uranium 0.010176 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 1/1/1984 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 1/1/1984 Sulfate 759 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/19/1984 Uranium 0.01 mg/L 0 Middle Chinle Non-mixing Zone ACW 7/19/1984 Selenium 0.02 mg/L 1 <t< td=""><td><u> </u></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | <u> </u> | | | | | | |
| Middle Chinle Non-mixing Zone ACW 8/31/1983 Uranium 0.01176 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Uranium 0.006784 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/1/1984 Uranium 0.01696 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/1/1984 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/19/1984 Uranium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/19/1984 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/19/1984 Selenium 0.02 mg/L 1 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<> | | | | | | | |
| Middle Chinle Non-mixing Zone ACW 8/31/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 8/31/1983 Suffate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Uranium 0.006784 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 1/1/1984 Uranium 0.01696 mg/L 1 Middle Chinle Non-mixing Zone ACW 1/1/1984 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/19/1984 Uranium 0.01 mg/L 0 Middle Chinle Non-mixing Zone ACW 7/19/1984 Uranium 0.01 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/2/1984 Uranium 0.01696 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/2/1984 Selenium 0.02 mg/L 1 | - | | | | | | |
| Middle Chinle Non-mixing Zone ACW 8/31/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/11/1984 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/11/1984 Sulfate 749 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/11/1984 Sulfate 759 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/19/1984 Sulfate 759 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/19/1984 Sulfate 814 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/19/1984 Sulfate 814 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/2/1984 Sulfate 888 mg/L 1 Middle C | | | | | | _ | |
| Middle Chinle Non-mixing Zone ACW 12/19/1983 Uranium 0.006784 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Selenium 0.02 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/19/1983 Sulfate 746 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/1/1984 Uranium 0.01696 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/1/1984 Sulfate 759 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/19/1984 Sulfate 759 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/19/1984 Sulfate 814 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/2/1984 Sulfate 814 mg/L 1 Middle Chinle Non-mixing Zone ACW 11/2/1984 Sulfate 688 mg/L 1 Middle Chinle Non-mixing Zone ACW 3/19/1986 Uranium 0.01 mg/L 0 <t< td=""><td><u> </u></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | <u> </u> | | | | | | |
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| Middle Chinle Non-mixing Zone ACW 6/26/1990 Sulfate 667 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1991 Uranium 0.00848 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1991 Selenium 0.01 mg/L 0 Middle Chinle Non-mixing Zone ACW 6/27/1991 Sulfate 640 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/10/1992 Uranium 0.00848 mg/L 0 Middle Chinle Non-mixing Zone ACW 12/10/1992 Selenium 0.01 mg/L 0 Middle Chinle Non-mixing Zone ACW 12/10/1992 Sulfate 692 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Uranium 0.022 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Selenium 0.011 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Selenium 0.011 mg/L 1 | · · · · · · · · · · · · · · · · · · · | | | | | | |
| Middle Chinle Non-mixing Zone ACW 6/27/1991 Uranium 0.00848 mg/L 1 Middle Chinle Non-mixing Zone ACW 6/27/1991 Selenium 0.01 mg/L 0 Middle Chinle Non-mixing Zone ACW 6/27/1991 Sulfate 640 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/10/1992 Uranium 0.00848 mg/L 0 Middle Chinle Non-mixing Zone ACW 12/10/1992 Selenium 0.01 mg/L 0 Middle Chinle Non-mixing Zone ACW 7/12/1994 Uranium 0.022 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Selenium 0.011 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Selenium 0.011 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Sulfate 643 mg/L 1 | - | | | | | _ | |
| Middle Chinle Non-mixing Zone ACW 6/27/1991 Selenium 0.01 mg/L 0 Middle Chinle Non-mixing Zone ACW 6/27/1991 Sulfate 640 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/10/1992 Uranium 0.00848 mg/L 0 Middle Chinle Non-mixing Zone ACW 12/10/1992 Selenium 0.01 mg/L 0 Middle Chinle Non-mixing Zone ACW 7/12/1992 Sulfate 692 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Uranium 0.022 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Selenium 0.011 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Sulfate 643 mg/L 1 | · · · · · · · · · · · · · · · · · · · | | | | | | |
| Middle Chinle Non-mixing Zone ACW 6/27/1991 Sulfate 640 mg/L 1 Middle Chinle Non-mixing Zone ACW 12/10/1992 Uranium 0.00848 mg/L 0 Middle Chinle Non-mixing Zone ACW 12/10/1992 Selenium 0.01 mg/L 0 Middle Chinle Non-mixing Zone ACW 12/10/1992 Sulfate 692 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Uranium 0.022 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Selenium 0.011 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Sulfate 643 mg/L 1 | · · · · · · · · · · · · · · · · · · · | | | | | | |
| Middle Chinle Non-mixing Zone ACW 12/10/1992 Uranium 0.00848 mg/L 0 Middle Chinle Non-mixing Zone ACW 12/10/1992 Selenium 0.01 mg/L 0 Middle Chinle Non-mixing Zone ACW 12/10/1992 Sulfate 692 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Uranium 0.022 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Selenium 0.011 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Sulfate 643 mg/L 1 | | | | | | | |
| Middle Chinle Non-mixing Zone ACW 12/10/1992 Selenium 0.01 mg/L 0 Middle Chinle Non-mixing Zone ACW 12/10/1992 Sulfate 692 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Uranium 0.022 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Selenium 0.011 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Sulfate 643 mg/L 1 | | | | | | | |
| Middle Chinle Non-mixing Zone ACW 12/10/1992 Sulfate 692 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Uranium 0.022 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Selenium 0.011 mg/L 1 Middle Chinle Non-mixing Zone ACW 7/12/1994 Sulfate 643 mg/L 1 | | | | | | | |
| Middle Chinle Non-mixing ZoneACW7/12/1994Uranium0.022mg/L1Middle Chinle Non-mixing ZoneACW7/12/1994Selenium0.011mg/L1Middle Chinle Non-mixing ZoneACW7/12/1994Sulfate643mg/L1 | Ţ | | | | | | ! |
| Middle Chinle Non-mixing ZoneACW7/12/1994Selenium0.011mg/L1Middle Chinle Non-mixing ZoneACW7/12/1994Sulfate643mg/L1 | | | | | | | |
| Middle Chinle Non-mixing Zone ACW 7/12/1994 Sulfate 643 mg/L 1 | · · · · · · · · · · · · · · · · · · · | | | | | | |
| | - | | | | | | |
| I MICOLE COLOR MON-MIXING ZONE I AC.VV I 7/17/1994 I FIRANIUM I DIDIO I MA/I I 1 | Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | ACW | 7/12/1994 | Uranium | 0.019 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|-------------------------------|---------|---------------|----------|---------------|-------|----------|
| Middle Chinle Non-mixing Zone | ACW | 7/12/1994 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | ACW | 7/12/1994 | Sulfate | 640 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 1/21/1982 | Uranium | 0.11024 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 1/21/1982 | Selenium | 0.09 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 1/21/1982 | Sulfate | 1039 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 1/28/1982 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW1 | 1/28/1982 | Selenium | 0.09 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 1/28/1982 | Sulfate | 903 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 3/9/1994 | Uranium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 3/9/1994 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW1 | 3/9/1994 | Sulfate | 724 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 2/26/2002 | Uranium | 0.034 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 2/26/2002 | Selenium | 0.011 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 2/26/2002 | Sulfate | 552 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 8/21/2002 | Uranium | 0.04 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 8/21/2002 | Selenium | 0.019 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 8/21/2002 | Sulfate | 616 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 4/23/2003 | Uranium | 0.0619 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 4/23/2003 | Selenium | 0.022 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW1 | 4/23/2003 | Sulfate | 597 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 2/1/1995 | Uranium | 0.019 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 2/1/1995 | Selenium | 0.222 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 2/1/1995 | Sulfate | 754 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 2/1/1995 | Uranium | 0.019 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 2/1/1995 | Selenium | 0.083 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 2/1/1995 | Sulfate | 667 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 2/17/1995 | Uranium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 2/17/1995 | Selenium | 0.099 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 2/17/1995 | Sulfate | 656 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 3/2/1995 | Uranium | 0.012 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 3/2/1995 | Selenium | 0.1 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW14 | 3/2/1995 | Sulfate | 601 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/22/1982 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 1/22/1982 | Selenium | 0.09 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/22/1982 | Sulfate | 1141 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/2/1982 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 2/2/1982 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 2/2/1982 | Sulfate | 847 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/15/1982 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 7/15/1982 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/15/1982 | Sulfate | 607 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/20/1983 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 1/20/1983 | Selenium | 0.03 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/20/1983 | Sulfate | 492 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/14/1983 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 4/14/1983 | Selenium | 0.04 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/14/1983 | Sulfate | 549 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 6/27/1983 | Uranium | 0.015 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 6/27/1983 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 6/27/1983 | Sulfate | 464 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 6/27/1983 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 6/27/1983 | Selenium | 0.03 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 6/27/1983 | Sulfate | 441 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 9/12/1983 | Uranium | 0.003392 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 9/12/1983 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 9/12/1983 | Sulfate | 560 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/26/1983 | Uranium | 0.003392 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/26/1983 | Selenium | 0.01 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|-------------------------------|------------|--------------------------|----------|---------------|-------|----------|
| Middle Chinle Non-mixing Zone | CW2 | 10/26/1983 | Sulfate | 593 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/5/1984 | Uranium | 0.01696 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/5/1984 | Selenium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/5/1984 | Sulfate | 648 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/4/1984 | Uranium | 0.003392 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/4/1984 | Selenium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/4/1984 | Sulfate | 769 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 6/15/1984 | Uranium | 0.01696 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 6/15/1984 | Selenium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 6/15/1984 | Sulfate | 701 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/12/1984 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 10/12/1984 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/12/1984 | Sulfate | 713 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/16/1985 | Uranium | 0.01696 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/16/1985 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/16/1985 | Sulfate | 513 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/10/1985 | Uranium | 0.01696 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/10/1985 | Selenium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/10/1985 | Sulfate | 549 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/22/1985 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 7/22/1985 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/22/1985 | Sulfate | 542 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/3/1985 | Uranium | 0.01696 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/3/1985 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/3/1985 | Sulfate | 530 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/9/1986 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 1/9/1986 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/9/1986 | Sulfate | 523 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/8/1986 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 4/8/1986 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/8/1986 | Sulfate | 807 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/15/1986 | Uranium | 0.013568 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/15/1986 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 7/15/1986 | Sulfate | 502 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/13/1986 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 10/13/1986 | Selenium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/13/1986 | Sulfate | 487 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/8/1987 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 1/8/1987 | Selenium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/8/1987 | Sulfate | 496 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/9/1987 | Uranium | 0.01696 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/9/1987 | Selenium | 0.03 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/9/1987 | Sulfate | 448 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/17/1987 | Uranium | 0.05088 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/17/1987 | Selenium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/17/1987 | Sulfate | 472 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 10/15/1987 10/15/1987 | Uranium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | | Selenium | 0.01 | mg/L | |
| Middle Chinle Non-mixing Zone | CW2 CW2 | 10/15/1987 | Sulfate | 536 0.015 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | | 11/19/1987 | Uranium | 0.015 | mg/L | |
| Middle Chinle Non-mixing Zone | CW2 | 11/19/1987 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 11/19/1987 | Sulfate | 485 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/19/1987 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 11/19/1987 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/19/1987 | Sulfate | 583 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/26/1988 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 1/26/1988 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/26/1988 | Sulfate | 508 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|-------------------------------|---------|---------------|----------|---------------|-------|----------|
| Middle Chinle Non-mixing Zone | CW2 | 4/20/1988 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 4/20/1988 | Selenium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/20/1988 | Sulfate | 519 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/20/1988 | Uranium | 0.00848 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/20/1988 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/20/1988 | Sulfate | 548 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 12/15/1988 | Uranium | 0.13568 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 12/15/1988 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 12/15/1988 | Sulfate | 579 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/23/1989 | Uranium | 0.06784 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 1/23/1989 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 1/23/1989 | Sulfate | 486 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/24/1989 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 4/24/1989 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 4/24/1989 | Sulfate | 603 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 9/20/1989 | Uranium | 0.01696 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 9/20/1989 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 9/20/1989 | Sulfate | 524 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 12/1/1989 | Uranium | 0.02544 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 12/1/1989 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 12/1/1989 | Sulfate | 576 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/15/1990 | Uranium | 0.00848 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/15/1990 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 2/15/1990 | Sulfate | 550 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/8/1990 | Uranium | 0.01696 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/8/1990 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/8/1990 | Sulfate | 509 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/7/1990 | Uranium | 0.06784 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/7/1990 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/7/1990 | Sulfate | 579 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/27/1990 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 11/27/1990 | Selenium | 0.002 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 11/27/1990 | Selenium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/27/1990 | Sulfate | 413 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/27/1990 | Sulfate | 449 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/19/1991 | Uranium | 0.03392 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/19/1991 | Selenium | 0.03 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/19/1991 | Sulfate | 574 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/16/1991 | Uranium | 0.07632 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/16/1991 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 5/16/1991 | Sulfate | 485 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/14/1991 | Uranium | 0.01696 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/14/1991 | Uranium | 0.017 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/14/1991 | Selenium | 0.003 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/14/1991 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 8/14/1991 | Sulfate | 449 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/14/1991 | Sulfate | 523 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/26/1991 | Uranium | 0.0424 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/26/1991 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 11/26/1991 | Sulfate | 595 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/19/1992 | Uranium | 0.03392 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/19/1992 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 2/19/1992 | Sulfate | 539 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/20/1992 | Uranium | 0.0424 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/20/1992 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 5/20/1992 | Sulfate | 588 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/30/1992 | Uranium | 0.01696 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/30/1992 | Selenium | 0.01 | mg/L | 0 |

| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | CW2 | 7/30/1992 | 015-4- | | | |
|---|------------|------------------------|--------------------|--------------|--------------|---|
| <u> </u> | | 1100/1002 | Sulfate | 503 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/30/1992 | Uranium | 0.00848 | mg/L | 1 |
| | CW2 | 7/30/1992 | Selenium | 0.001 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 7/30/1992 | Sulfate | 490 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/4/1992 | Uranium | 0.00848 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/4/1992 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 11/4/1992 | Sulfate | 542 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/8/1993 | Uranium | 0.02544 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/8/1993 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 2/8/1993 | Sulfate | 520 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/4/1993 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 5/4/1993 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 5/4/1993 | Sulfate | 869 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/12/1993 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 8/12/1993 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 8/12/1993 | Sulfate | 512 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/1/1993 | Uranium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/1/1993 | Selenium | 0.001 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 11/1/1993 | Sulfate | 450 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/2/1994 | Uranium | 0.014 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/2/1994 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 2/2/1994 | Sulfate | 496 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 3/10/1994 | Uranium | 0.018 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 3/10/1994 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 3/10/1994 | Sulfate | 595 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/3/1994 | Uranium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/3/1994 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 5/3/1994 | Sulfate | 542 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/2/1994 | Uranium | 0.017 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/2/1994 | Selenium | 0.007 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/2/1994 | Sulfate | 544 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/2/1994 | Uranium | 0.023 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 CW2 | 11/2/1994 11/2/1994 | Selenium | 0.005 589 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | CW2 | 2/2/1995 | Sulfate Uranium | 0.015 | mg/L mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/2/1995 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 2/2/1995 | Sulfate | 520 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/3/1995 | Uranium | 0.019 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/3/1995 | Selenium | 0.019 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 2/3/1995 | Sulfate | 501 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | CW2 | 5/5/1995 | Uranium | 0.025 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/5/1995 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 5/5/1995 | Sulfate | 697 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/2/1995 | Uranium | 0.015 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/2/1995 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 8/2/1995 | Sulfate | 581 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/15/1995 | Uranium | 0.018 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/15/1995 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 11/15/1995 | Sulfate | 646 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/12/1996 | Uranium | 0.018 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/12/1996 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 2/12/1996 | Sulfate | 734 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/12/1996 | Uranium | 0.016 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/12/1996 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 2/12/1996 | Sulfate | 741 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/14/1996 | Uranium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/14/1996 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 5/14/1996 | Sulfate | 704 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|-------------------------------|---------|---------------|----------|---------------|-------|----------|
| Middle Chinle Non-mixing Zone | CW2 | 7/29/1996 | Uranium | 0.0121 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/29/1996 | Selenium | 0.011 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/29/1996 | Sulfate | 651 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/4/1996 | Uranium | 0.012 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/4/1996 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 11/4/1996 | Sulfate | 1430 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/3/1997 | Uranium | 0.014 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/3/1997 | Selenium | 0.005 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/3/1997 | Sulfate | 670 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/29/1997 | Uranium | 0.013 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/29/1997 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 4/29/1997 | Sulfate | 666 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/28/1997 | Uranium | 0.015 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 7/28/1997 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 7/28/1997 | Sulfate | 711 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/13/1997 | Uranium | 0.018 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/13/1997 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | CW2 | 10/13/1997 | Sulfate | 722 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/10/1998 | Uranium | 0.0146 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/10/1998 | Selenium | 0.005 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/10/1998 | Sulfate | 546 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/6/1998 | Uranium | 0.0195 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/6/1998 | Selenium | 0.005 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/6/1998 | Sulfate | 579 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/5/1998 | Uranium | 0.0133 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/5/1998 | Selenium | 0.009 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/5/1998 | Sulfate | 782 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/28/1998 | Uranium | 0.015 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/28/1998 | Selenium | 0.006 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 10/28/1998 | Sulfate | 704 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/4/1999 | Uranium | 0.0129 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/4/1999 | Selenium | 0.005 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/4/1999 | Sulfate | 850 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/20/1999 | Uranium | 0.013 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/20/1999 | Selenium | 0.008 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/20/1999 | Sulfate | 665 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/17/1999 | Uranium | 0.0145 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/17/1999 | Selenium | 0.008 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/17/1999 | Sulfate | 561 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/4/1999 | Uranium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/4/1999 | Selenium | 0.007 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/4/1999 | Sulfate | 810 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/2/2000 | Uranium | 0.013 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/2/2000 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/2/2000 | Sulfate | 582 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/2/2000 | Uranium | 0.0154 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/2/2000 | Selenium | 0.014 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/2/2000 | Sulfate | 637 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/2/2000 | Uranium | 0.01833 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/2/2000 | Selenium | 0.007509 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/2/2000 | Sulfate | 704 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/28/2000 | Uranium | 0.01151 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/28/2000 | Selenium | 0.01512 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 11/28/2000 | Sulfate | 553 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/30/2001 | Uranium | 0.016 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/30/2001 | Selenium | 0.013 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 5/30/2001 | Sulfate | 400 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/26/2002 | Uranium | 0.069 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|-------------------------------|---------|---------------|----------|---------------|-------|----------|
| Middle Chinle Non-mixing Zone | CW2 | 2/26/2002 | Selenium | 0.013 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 2/26/2002 | Sulfate | 411 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/15/2002 | Uranium | 0.04 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/15/2002 | Selenium | 0.021 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/15/2002 | Sulfate | 410 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/21/2002 | Uranium | 0.1 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/21/2002 | Selenium | 0.019 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 8/21/2002 | Sulfate | 441 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/23/2003 | Uranium | 0.0339 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/23/2003 | Selenium | 0.018 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW2 | 4/23/2003 | Sulfate | 410 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 4/5/1995 | Uranium | 0.014 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 4/5/1995 | Selenium | 0.031 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 4/5/1995 | Sulfate | 373 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 4/13/1995 | Uranium | 0.011 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 4/13/1995 | Selenium | 0.048 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 4/13/1995 | Sulfate | 361 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 11/21/1995 | Uranium | 0.011 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 11/21/1995 | Selenium | 0.083 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 11/21/1995 | Sulfate | 429 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 8/27/1996 | Uranium | 0.036 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 8/27/1996 | Selenium | 0.053 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 8/27/1996 | Sulfate | 319 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 11/19/1997 | Uranium | 0.072 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 11/19/1997 | Selenium | 0.054 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 11/19/1997 | Sulfate | 442 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 11/4/1998 | Uranium | 0.076 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 11/4/1998 | Selenium | 0.027 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 11/4/1998 | Sulfate | 482 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/26/1999 | Uranium | 0.06285 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/26/1999 | Selenium | 0.032 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/26/1999 | Sulfate | 465.5 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/20/2000 | Uranium | 0.08309 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/20/2000 | Selenium | 0.03079 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/20/2000 | Sulfate | 446 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/24/2001 | Uranium | 0.048 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/24/2001 | Selenium | 0.016 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/24/2001 | Sulfate | 390 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/23/2002 | Uranium | 0.036 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/23/2002 | Selenium | 0.083 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 7/23/2002 | Sulfate | 461 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 4/28/2003 | Uranium | 0.0172 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 4/28/2003 | Selenium | 0.092 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | CW28 | 4/28/2003 | Sulfate | 407 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/16/1980 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 6/16/1980 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 6/16/1980 | Sulfate | 752 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 7/7/1980 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 11/17/1980 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 11/17/1980 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 11/17/1980 | Sulfate | 775 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 12/2/1980 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 12/2/1980 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 12/2/1980 | Sulfate | 818 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 8/18/1981 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 8/18/1981 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 8/18/1981 | Sulfate | 787 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 9/21/1981 | Uranium | 0.00848 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|--|---------|--------------------------|---------------------|-----------------|--------------|----------|
| Middle Chinle Non-mixing Zone | WCW | 9/21/1981 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 9/21/1981 | Sulfate | 787 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 10/8/1981 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 10/8/1981 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 10/8/1981 | Sulfate | 733 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 11/19/1981 | Uranium | 0.02544 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 11/19/1981 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 11/19/1981 | Sulfate | 755 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 12/31/1981 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 12/31/1981 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 12/31/1981 | Sulfate | 766 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 2/15/1982 | Uranium | 0.05088 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 2/15/1982 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 2/15/1982 | Sulfate | 772 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 3/2/1982 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 3/2/1982 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 3/2/1982 | Sulfate | 753 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/23/1982 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 5/23/1982 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 5/23/1982 | Sulfate | 739 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 11/18/1982 | Uranium | 0.11024 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 11/18/1982 | Selenium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 11/18/1982 | Sulfate | 730 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 2/14/1983 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 2/14/1983 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 2/14/1983 | Sulfate | 708 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 4/15/1983 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 4/15/1983 | Selenium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 4/15/1983 | Sulfate | 744 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/27/1983 | Uranium | 0.033 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/27/1983 | Selenium | 0.007 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/27/1983 | Sulfate | 759 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/27/1983 | Uranium | 0.00848 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/27/1983 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/27/1983 | Sulfate | 694 0.013568 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 8/31/1983 8/31/1983 | Uranium Selenium | 0.013366 | mg/L | 1 |
| | WCW | 8/31/1983 | Sulfate | 731 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 12/19/1983 | Uranium | 0.006784 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | | | 0.00784 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 12/19/1983 12/19/1983 | Selenium Sulfate | 895 | mg/L mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 1/20/1984 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 1/20/1984 | Selenium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 1/20/1984 | Sulfate | 824 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 4/26/1984 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 4/26/1984 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 4/26/1984 | Sulfate | 741 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 7/18/1984 | Uranium | 0.01696 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 7/18/1984 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 7/18/1984 | Sulfate | 895 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 11/1/1984 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 11/1/1984 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 11/1/1984 | Sulfate | 842 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 1/25/1985 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 1/25/1985 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 1/25/1985 | Sulfate | 807 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 4/22/1985 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 4/22/1985 | Selenium | 0.01 | mg/L | 1 |
| | | | - + | | J = | |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|--|---------|----------------------|--------------------|---------------|--------------|----------|
| Middle Chinle Non-mixing Zone | WCW | 4/22/1985 | Sulfate | 807 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 7/18/1985 | Uranium | 0.00848 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 7/18/1985 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 7/18/1985 | Sulfate | 896 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 10/18/1985 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 10/18/1985 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 10/18/1985 | Sulfate | 817 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 1/30/1986 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 1/30/1986 | Selenium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 1/30/1986 | Sulfate | 810 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 4/29/1986 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 4/29/1986 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 4/29/1986 | Sulfate | 827 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 7/30/1986 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 7/30/1986 | Selenium | 0.02 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 7/30/1986 | Sulfate | 811 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 12/3/1986 | Uranium | 0.00848 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 12/3/1986 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 12/3/1986 | Sulfate | 845 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 3/19/1987 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 3/19/1987 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 3/19/1987 | Sulfate | 792 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 7/1/1987 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 7/1/1987 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 7/1/1987 | Sulfate | 818 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 9/30/1987 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 9/30/1987 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 9/30/1987 | Sulfate | 823 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 2/29/1988 | Uranium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 2/29/1988 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 2/29/1988 | Sulfate | 775 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/27/1988 | Uranium | 0.01696 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/27/1988 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/27/1988 | Sulfate | 815 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 8/30/1988 | Uranium | 0.00848 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 8/30/1988 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 8/30/1988 | Sulfate | 797 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | | 10/12/1988 | Uranium | 0.02544 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 10/12/1988 | Selenium | 0.01 798 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 10/12/1988 | Sulfate Uranium | 0.03392 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 4/7/1989 4/7/1989 | Selenium | 0.03392 | mg/L mg/L | 0 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 4/7/1989 | Sulfate | 844 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 7/5/1989 | Uranium | 0.03392 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 7/5/1989 | Selenium | 0.03392 | mg/L | 0 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 7/5/1989 | Sulfate | 818 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 10/20/1989 | Uranium | 0.00848 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 10/20/1989 | Selenium | 0.00848 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 10/20/1989 | Sulfate | 790 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 6/25/1990 | Uranium | 0.01696 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/25/1990 | Selenium | 0.01090 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 6/25/1990 | Sulfate | 820 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 6/10/1991 | Selenium | 0.01 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 6/10/1991 | Sulfate | 780 | mg/L | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 9/17/1992 | Uranium | 0.00848 | mg/L | 0 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | WCW | 9/17/1992 | Selenium | 0.00848 | mg/L | 0 |
| · · · · · · · · · · · · · · · · · · · | WCW | 9/17/1992 | Sulfate | 802 | | 1 |
| Middle Chinle Non-mixing Zone Middle Chinle Non-mixing Zone | | | | | mg/L | |
| whate Chine Non-mixing Zone | WCW | 6/8/1993 | Uranium | 0.02544 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|-------------------------------|---------|---------------|----------|---------------|-------|----------|
| Middle Chinle Non-mixing Zone | WCW | 6/8/1993 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 6/8/1993 | Sulfate | 757 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/15/1994 | Uranium | 0.011 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/15/1994 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 6/15/1994 | Sulfate | 786 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/15/1994 | Uranium | 0.015 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 6/15/1994 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 6/15/1994 | Sulfate | 764 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 10/25/1994 | Uranium | 0.013 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 10/25/1994 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 10/25/1994 | Sulfate | 772 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/22/1996 | Uranium | 0.011 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/22/1996 | Selenium | 0.01 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 5/22/1996 | Sulfate | 760 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/22/1997 | Uranium | 0.008 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/22/1997 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 5/22/1997 | Sulfate | 731 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/6/1998 | Uranium | 0.0097 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/6/1998 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 5/6/1998 | Sulfate | 680 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/11/1999 | Uranium | 0.02055 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/11/1999 | Selenium | 0.0085 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/11/1999 | Sulfate | 715.5 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/16/2000 | Uranium | 0.01758 | mg/L | 1 |
| Middle Chinle Non-mixing Zone | WCW | 5/16/2000 | Selenium | 0.005 | mg/L | 0 |
| Middle Chinle Non-mixing Zone | WCW | 5/16/2000 | Sulfate | 743 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 3/26/1982 | TDS | 2140 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/28/1982 | TDS | 2140 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/10/1983 | TDS | 1920 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/30/1983 | TDS | 2160 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/10/1984 | TDS | 1710 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/24/1984 | TDS | 2130 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/18/1985 | TDS | 1290 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/19/1985 | TDS | 1530 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/13/1986 | TDS | 1410 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/23/1986 | TDS | 2090 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/29/1987 | TDS | 1610 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/22/1987 | TDS | 1460 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 2/10/1988 | TDS | 1760 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/28/1988 | TDS | 1770 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/18/1989 | TDS | 1990 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/18/1989 | TDS | 1870 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/3/1990 | TDS | 2140 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/20/1991 | TDS | 1960 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/12/1992 | TDS | 1950 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 3/4/1993 | TDS | 1990 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/1/1993 | TDS | 1905 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 3/28/1994 | TDS | 1893 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/17/1994 | TDS | 1874 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 6/14/1995 | TDS | 1867 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/16/1995 | TDS | 1932 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/31/1996 | TDS | 1815 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/14/1997 | TDS | 1550 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/3/1997 | TDS | 1530 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/1/1998 | TDS | 1415 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/16/1998 | TDS | 1370 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/20/1999 | TDS | 1340 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/14/1999 | TDS | 1340 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|------------------------------|---------|---------------|---------|---------------|-------|----------|
| Upper Chinle Non-mixing Zone | 0931 | 4/6/2000 | TDS | 1735 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/30/2000 | TDS | 1410 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 2/25/1982 | TDS | 1910 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/18/1989 | TDS | 1710 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/3/1990 | TDS | 1840 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/19/1991 | TDS | 1790 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/12/1992 | TDS | 1760 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 3/4/1993 | TDS | 1830 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/31/1993 | TDS | 1777 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 3/28/1994 | TDS | 1676 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/17/1994 | TDS | 1549 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/17/1995 | TDS | 1589 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/31/1996 | TDS | 1678 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/14/1997 | TDS | 1650 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/3/1997 | TDS | 1720 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/1/1998 | TDS | 1680 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/24/1998 | TDS | 1700 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/20/1999 | TDS | 1660 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/14/1999 | TDS | 1590 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/6/2000 | TDS | 1610 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/30/2000 | TDS | 1580 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/25/2001 | TDS | 1560 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 2/26/2002 | TDS | 1830 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/22/2002 | TDS | 1780 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/28/2003 | TDS | 1880 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 12/29/1994 | TDS | 2022 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 12/29/1994 | TDS | 2050 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 2/11/1995 | TDS | 1824 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 5/28/1996 | TDS | 1921 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 6/14/1996 | TDS | 1820 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 2/9/1995 | TDS | 1608 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 11/22/1995 | TDS | 1522 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 8/27/1996 | TDS | 1820 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 10/15/1996 | TDS | 1870 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 1/3/1997 | TDS | 1850 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 4/17/1997 | TDS | 1810 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 11/19/1997 | TDS | 1970 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 4/14/1998 | TDS | 2000 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 11/4/1998 | TDS | 2010 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/22/1999 | TDS | 1920 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/20/2000 | TDS | 2010 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/24/2001 | TDS | 1910 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/23/2002 | TDS | 1930 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 4/28/2003 | TDS | 1880 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/29/1982 | TDS | 1600 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 3/9/1982 | TDS | 1560 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 3/10/1982 | TDS | 1560 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/15/1982 | TDS | 1540 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 9/15/1982 | TDS | 1540 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 12/23/1982 | TDS | 1430 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/11/1983 | TDS | 1520 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/14/1983 | TDS | 1550 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 6/28/1983 | TDS | 1440 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 6/28/1983 | TDS | 1475 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 9/12/1983 | TDS | 1500 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/27/1983 | TDS | 1410 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/6/1984 | TDS | 1530 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/4/1984 | TDS | 1450 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|--|---------|------------------------|------------|---------------|--------------|----------|
| Upper Chinle Non-mixing Zone | CW3 | 7/26/1984 | TDS | 1410 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/12/1984 | TDS | 1580 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/17/1985 | TDS | 1550 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/10/1985 | TDS | 1460 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/22/1985 | TDS | 1570 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/4/1985 | TDS | 1200 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/9/1986 | TDS | 1550 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/8/1986 | TDS | 1250 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/16/1986 | TDS | 1610 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/13/1986 | TDS | 1310 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/8/1987 | TDS | 1240 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/9/1987 | TDS | 1360 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/22/1987 | TDS | 1320 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/15/1987 | TDS | 1540 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1988 | TDS | 1350 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/20/1988 | TDS | 1310 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/20/1988 | TDS | 1410 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/12/1988 | TDS | 1460 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/24/1989 | TDS | 1420 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/25/1989 | TDS | 1620 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 9/15/1989 | TDS | 920 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/29/1989 | TDS | 1570 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/15/1990 | TDS | 1340 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/8/1990 | TDS | 1530 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/20/1990 | TDS | 1500 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/7/1990 | TDS | 1540 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/27/1990 | TDS | 1450 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/27/1990 | TDS | 1450 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/19/1991 | TDS | 1480 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/15/1991 | TDS | 1550 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/13/1991 | TDS | 1480 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/13/1991 | TDS | 1530 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/26/1991 | TDS | 1550 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/20/1992 | TDS | 1540 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/20/1992 7/29/1992 | TDS TDS | 1500 1419 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/29/1992 | TDS | | mg/L | |
| Upper Chinle Non-mixing Zone | CW3 | 11/4/1992 | TDS | 1550 1550 | mg/L | 1 |
| Upper Chinle Non-mixing Zone Upper Chinle Non-mixing Zone | CW3 | 2/8/1993 | TDS | 1550 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/4/1993 | TDS | 1520 | mg/L | 1 |
| Upper Chinle Non-mixing Zone Upper Chinle Non-mixing Zone | CW3 | 8/11/1993 | TDS | 1467 | mg/L mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/11/1993 | TDS | 1540 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/1/1993 | TDS | 1509 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1994 | TDS | 1487 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1994 | TDS | 1426 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 3/9/1994 | TDS | 1476 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/3/1994 | TDS | 1441 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/1/1994 | TDS | 1410 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/1/1994 | TDS | 1439 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1995 | TDS | 1470 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/5/1995 | TDS | 1424 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/2/1995 | TDS | 1475 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/15/1995 | TDS | 1461 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/27/1995 | TDS | 1473 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/12/1996 | TDS | 1479 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/14/1996 | TDS | 1451 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/31/1996 | TDS | 1481 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/4/1996 | TDS | 1370 | mg/L | 1 |
| | | | | | <u> </u> | |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|-------------------------------|---------|---------------|----------|---------------|-------|----------|
| Upper Chinle Non-mixing Zone | CW3 | 2/3/1997 | TDS | 1460 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/29/1997 | TDS | 1500 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/28/1997 | TDS | 1460 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/13/1997 | TDS | 1480 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/10/1998 | TDS | 1580 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/5/1998 | TDS | 1480 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/4/1998 | TDS | 1510 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/28/1998 | TDS | 1560 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/3/1999 | TDS | 1520 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/11/1999 | TDS | 1450 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/17/1999 | TDS | 1540 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/9/1999 | TDS | 1500 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/8/2000 | TDS | 1525 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/27/2000 | TDS | 1520 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/2/2000 | TDS | 1535 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/28/2000 | TDS | 1540 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/13/2001 | TDS | 1450 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 6/5/2001 | TDS | 1610 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 3/26/1982 | Uranium | 0.00848 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 3/26/1982 | Selenium | 0.000 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 3/26/1982 | Sulfate | 630 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 3/26/1982 | Chlorine | 540 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/28/1982 | Uranium | 0.00848 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 7/28/1982 | Selenium | 0.03 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/28/1982 | Sulfate | 667 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/28/1982 | Chlorine | 156 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/10/1983 | Uranium | 0.00848 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 1/10/1983 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/10/1983 | Sulfate | 640 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/10/1983 | Chlorine | 496 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/30/1983 | Uranium | 0.00848 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 8/30/1983 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 8/30/1983 | Sulfate | 712 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/30/1983 | Chlorine | 397 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/10/1984 | Uranium | 0.00848 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 1/10/1984 | Selenium | 0.03 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/10/1984 | Sulfate | 625 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/10/1984 | Chlorine | 489 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/24/1984 | Uranium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 7/24/1984 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/24/1984 | Sulfate | 735 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/24/1984 | Chlorine | 418 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/18/1985 | Uranium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 1/18/1985 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/18/1985 | Sulfate | 651 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/18/1985 | Chlorine | 525 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/19/1985 | Uranium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 7/19/1985 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/19/1985 | Sulfate | 677 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/19/1985 | Chlorine | 475 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/13/1986 | Uranium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 1/13/1986 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/13/1986 | Sulfate | 693 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/13/1986 | Chlorine | 390 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/23/1986 | Uranium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 7/23/1986 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/23/1986 | Sulfate | 722 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/23/1986 | Chlorine | 390 | mg/L | 1 |
| Oppor Grinie Non-Hilking Zone | 0901 | 112011300 | CHICHITE | 390 | my/L | <u>'</u> |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|------------------------------|---------|---------------|----------|---------------|-------|----------|
| Upper Chinle Non-mixing Zone | 0931 | 1/29/1987 | Uranium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 1/29/1987 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/29/1987 | Sulfate | 699 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/29/1987 | Chlorine | 426 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/22/1987 | Uranium | 0.05936 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/22/1987 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/22/1987 | Sulfate | 765 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/22/1987 | Chlorine | 355 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 2/10/1988 | Uranium | 0.14416 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 2/10/1988 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 2/10/1988 | Sulfate | 737 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 2/10/1988 | Chlorine | 369 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/28/1988 | Uranium | 0.03392 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/28/1988 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/28/1988 | Sulfate | 686 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/28/1988 | Chlorine | 390 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/18/1989 | Uranium | 0.02544 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/18/1989 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/18/1989 | Sulfate | 724 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 1/18/1989 | Chlorine | 277 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/18/1989 | Uranium | 0.01696 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/18/1989 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/18/1989 | Sulfate | 779 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/18/1989 | Chlorine | 262 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/3/1990 | Uranium | 0.00848 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/3/1990 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/3/1990 | Sulfate | 704 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/3/1990 | Chlorine | 312 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/20/1991 | Uranium | 0.03392 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/20/1991 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 8/20/1991 | Sulfate | 723 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/20/1991 | Chlorine | 277 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/12/1992 | Uranium | 0.02544 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/12/1992 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 8/12/1992 | Sulfate | 751 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/12/1992 | Chlorine | 277 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 3/4/1993 | Uranium | 0.05088 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 3/4/1993 | Selenium | 0.008 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 3/4/1993 | Sulfate | 737 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 3/4/1993 | Chlorine | 284 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/1/1993 | Uranium | 0.005088 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/1/1993 | Selenium | 0.001 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 9/1/1993 | Sulfate | 622 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/1/1993 | Chlorine | 329 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 3/28/1994 | Uranium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 3/28/1994 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 3/28/1994 | Sulfate | 657 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 3/28/1994 | Chlorine | 333 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/17/1994 | Uranium | 0.006 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/17/1994 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 8/17/1994 | Sulfate | 706 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/17/1994 | Chlorine | 304 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 6/14/1995 | Uranium | 0.0234 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 6/14/1995 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 6/14/1995 | Sulfate | 646 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 6/14/1995 | Chlorine | 313 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/16/1995 | Uranium | 0.016 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/16/1995 | Selenium | 0.005 | mg/L | 0 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|------------------------------|---------|---------------|----------|---------------|-------|----------|
| Upper Chinle Non-mixing Zone | 0931 | 8/16/1995 | Sulfate | 704 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/16/1995 | Chlorine | 397 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/31/1996 | Uranium | 0.031 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/31/1996 | Selenium | 0.014 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/31/1996 | Sulfate | 709 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 7/31/1996 | Chlorine | 252 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/14/1997 | Uranium | 0.006 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/14/1997 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 4/14/1997 | Sulfate | 626 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/14/1997 | Chlorine | 235 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/3/1997 | Uranium | 0.004 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/3/1997 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 9/3/1997 | Sulfate | 619 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/3/1997 | Chlorine | 244 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/1/1998 | Selenium | 0.0125 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 4/1/1998 | Uranium | 0.01665 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/1/1998 | Sulfate | 611.5 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/1/1998 | Chlorine | 244.5 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/16/1998 | Uranium | 0.0015 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/16/1998 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 9/16/1998 | Sulfate | 540 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/16/1998 | Chlorine | 223 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/20/1999 | Uranium | 0.0007 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/20/1999 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 4/20/1999 | Sulfate | 554 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/20/1999 | Chlorine | 211 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/14/1999 | Uranium | 0.0031 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/14/1999 | Selenium | 0.014 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/14/1999 | Sulfate | 535 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 9/14/1999 | Chlorine | 220 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/6/2000 | Uranium | 0.0177 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/6/2000 | Selenium | 0.014 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/6/2000 | Sulfate | 709.5 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 4/6/2000 | Chlorine | 282 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/30/2000 | Uranium | 0.002007 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/30/2000 | Selenium | 0.0115 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0931 | 8/30/2000 | Sulfate | 572.5 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0931 | 8/30/2000 | Chlorine | 144.5 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 2/25/1982 | Uranium | 0.00848 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0934 | 2/25/1982 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0934 | 2/25/1982 | Sulfate | 768 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 2/25/1982 | Chlorine | 241 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/18/1989 | Uranium | 0.01696 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/18/1989 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0934 | 9/18/1989 | Sulfate | 786 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/18/1989 | Chlorine | 156 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/3/1990 | Uranium | 0.00848 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/3/1990 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/3/1990 | Sulfate | 732 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/3/1990 | Chlorine | 170 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/19/1991 | Uranium | 0.0424 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/19/1991 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0934 | 8/19/1991 | Sulfate | 748 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/19/1991 | Chlorine | 163 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/12/1992 | Uranium | 0.03392 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/12/1992 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0934 | 8/12/1992 | Sulfate | 774 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/12/1992 | Chlorine | 156 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|------------------------------|---------|---------------|----------|---------------|-------|----------|
| Upper Chinle Non-mixing Zone | 0934 | 3/4/1993 | Uranium | 0.01696 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 3/4/1993 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 3/4/1993 | Sulfate | 821 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 3/4/1993 | Chlorine | 163 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/31/1993 | Uranium | 0.014416 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/31/1993 | Selenium | 0.001 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0934 | 8/31/1993 | Sulfate | 678 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/31/1993 | Chlorine | 163 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 3/28/1994 | Uranium | 0.026 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 3/28/1994 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0934 | 3/28/1994 | Sulfate | 654 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 3/28/1994 | Chlorine | 194 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/17/1994 | Uranium | 0.019 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/17/1994 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0934 | 8/17/1994 | Sulfate | 662 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/17/1994 | Chlorine | 161 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/17/1995 | Uranium | 0.027 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/17/1995 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0934 | 8/17/1995 | Sulfate | 727 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/17/1995 | Chlorine | 176 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/31/1996 | Uranium | 0.0173 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/31/1996 | Selenium | 0.063 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/31/1996 | Sulfate | 706 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/31/1996 | Chlorine | 163 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/14/1997 | Uranium | 0.026 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/14/1997 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0934 | 4/14/1997 | Sulfate | 727 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/14/1997 | Chlorine | 131 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/3/1997 | Uranium | 0.014 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/3/1997 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0934 | 9/3/1997 | Sulfate | 733 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/3/1997 | Chlorine | 149 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/1/1998 | Uranium | 0.0259 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/1/1998 | Selenium | 0.009 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/1/1998 | Sulfate | 801 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/1/1998 | Chlorine | 148 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/24/1998 | Uranium | 0.016 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/24/1998 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | 0934 | 9/24/1998 | Sulfate | 696 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/24/1998 | Chlorine | 125 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/20/1999 | Uranium | 0.0096 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/20/1999 | Selenium | 0.008 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/20/1999 | Sulfate | 705 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/20/1999 | Chlorine | 117 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/14/1999 | Uranium | 0.0287 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/14/1999 | Selenium | 0.025 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/14/1999 | Sulfate | 730 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 9/14/1999 | Chlorine | 82.5 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/6/2000 | Uranium | 0.0593 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/6/2000 | Selenium | 0.029 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/6/2000 | Sulfate | 700 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/6/2000 | Chlorine | 83.3 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/30/2000 | Uranium | 0.022 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/30/2000 | Selenium | 0.018 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/30/2000 | Sulfate | 645 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 8/30/2000 | Chlorine | 77.1 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/25/2001 | Uranium | 0.031 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/25/2001 | Selenium | 0.023 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|------------------------------|--------------|--------------------------|---------------------|---------------|-------|----------|
| Upper Chinle Non-mixing Zone | 0934 | 7/25/2001 | Sulfate | 620 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 2/26/2002 | Uranium | 0.051 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 2/26/2002 | Selenium | 0.026 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 2/26/2002 | Sulfate | 629 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/22/2002 | Uranium | 0.361 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/22/2002 | Selenium | 0.029 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 7/22/2002 | Sulfate | 691 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/28/2003 | Uranium | 0.0931 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/28/2003 | Selenium | 0.017 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | 0934 | 4/28/2003 | Sulfate | 635 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 12/29/1994 | Uranium | 0.045 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 12/29/1994 | Selenium | 0.036 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 12/29/1994 | Sulfate | 910 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 12/29/1994 | Chlorine | 94.9 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 12/29/1994 | Uranium | 0.046 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 12/29/1994 | Selenium | 0.051 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 12/29/1994 | Sulfate | 923 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 12/29/1994 | Chlorine | 92.2 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 2/11/1995 | Uranium | 0.05 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 2/11/1995 | Selenium | 0.03 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 2/11/1995 | Sulfate | 872 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 2/11/1995 | Chlorine | 80.2 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 5/28/1996 | Uranium | 0.05 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 5/28/1996 | Selenium | 0.102 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 5/28/1996 | Sulfate | 915 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 5/28/1996 | Chlorine | 85.3 | | 1 |
| Upper Chinle Non-mixing Zone | CW13 | 6/14/1996 | Uranium | 0.096 | mg/L | 1 |
| | | | | | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW13 CW13 | 6/14/1996 6/14/1996 | Selenium Sulfate | 0.191 973 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | | | | | mg/L | |
| Upper Chinle Non-mixing Zone | CW18 | 2/9/1995 | Uranium | 0.028 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 2/9/1995 | Selenium | 0.076 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 CW18 | 2/9/1995 | Sulfate | 661 214 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 2/9/1995 | Chlorine | | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 11/22/1995 | Uranium | 0.016 | mg/L | |
| Upper Chinle Non-mixing Zone | CW18 | 11/22/1995 | Selenium Sulfate | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW18 | 11/22/1995 11/22/1995 | | 580 | mg/L | |
| Upper Chinle Non-mixing Zone | | | Chlorine | 199 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 8/27/1996 | Uranium | 0.135 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 8/27/1996 | Selenium | 0.129 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 8/27/1996 | Sulfate | 735 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 10/15/1996 | Uranium | 0.148 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 10/15/1996 | Selenium | 0.105 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 10/15/1996 | Sulfate | 744 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 10/15/1996 | Chlorine | 150 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 1/3/1997 | Uranium | 0.124 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 1/3/1997 | Selenium | 0.087 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 1/3/1997 | Sulfate | 728 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 4/17/1997 | Uranium | 0.113 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 4/17/1997 | Selenium | 0.068 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 4/17/1997 | Sulfate | 736 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 11/19/1997 | Uranium | 0.0954 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 11/19/1997 | Selenium | 0.048 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 11/19/1997 | Sulfate | 661 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 11/19/1997 | Chlorine | 168 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 4/14/1998 | Uranium | 0.0805 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 4/14/1998 | Selenium | 0.044 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 4/14/1998 | Sulfate | 726 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 11/4/1998 | Uranium | 0.085 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|------------------------------|---------|---------------|----------|---------------|-------|----------|
| Upper Chinle Non-mixing Zone | CW18 | 11/4/1998 | Selenium | 0.034 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 11/4/1998 | Sulfate | 669 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 11/4/1998 | Chlorine | 188 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/22/1999 | Uranium | 0.0647 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/22/1999 | Selenium | 0.036 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/22/1999 | Sulfate | 697 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/20/2000 | Uranium | 0.0659 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/20/2000 | Selenium | 0.023 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/20/2000 | Sulfate | 646 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/24/2001 | Uranium | 0.046 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/24/2001 | Selenium | 0.026 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/24/2001 | Sulfate | 565 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/23/2002 | Uranium | 0.039 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/23/2002 | Selenium | 0.021 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 7/23/2002 | Sulfate | 678 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 4/28/2003 | Uranium | 0.0416 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 4/28/2003 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW18 | 4/28/2003 | Sulfate | 655 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/29/1982 | Uranium | 0.00848 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 1/29/1982 | Selenium | 0.06 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/29/1982 | Sulfate | 886 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/29/1982 | Chlorine | 53 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 3/9/1982 | Uranium | 0.00848 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 3/9/1982 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 3/9/1982 | Sulfate | 851 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 3/9/1982 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 3/10/1982 | Uranium | 0.00848 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 3/10/1982 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 3/10/1982 | Sulfate | 857 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 3/10/1982 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/15/1982 | Uranium | 0.00848 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 7/15/1982 | Sulfate | 793 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/15/1982 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 9/15/1982 | Uranium | 0.00848 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 9/15/1982 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 9/15/1982 | Sulfate | 793 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 9/15/1982 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 12/23/1982 | Uranium | 0.00848 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 12/23/1982 | Selenium | 0.03 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 12/23/1982 | Sulfate | 833 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 12/23/1982 | Chlorine | 50 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/11/1983 | Uranium | 0.00848 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 2/11/1983 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/11/1983 | Sulfate | 770 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/11/1983 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/14/1983 | Uranium | 0.003392 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/14/1983 | Selenium | 0.05 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/14/1983 | Sulfate | 787 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/14/1983 | Chlorine | 57 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 6/28/1983 | Uranium | 0.00848 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 6/28/1983 | Uranium | 0.025 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 6/28/1983 | Selenium | 0.007 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 6/28/1983 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 6/28/1983 | Sulfate | 764 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 6/28/1983 | Sulfate | 844 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 6/28/1983 | Chlorine | 35 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 6/28/1983 | Chlorine | 54.7 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 9/12/1983 | Uranium | 0.003392 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|------------------------------|---------|---------------|----------|---------------|-------|----------|
| Upper Chinle Non-mixing Zone | CW3 | 9/12/1983 | Selenium | 0.03 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 9/12/1983 | Sulfate | 838 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 9/12/1983 | Chlorine | 21 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/27/1983 | Uranium | 0.010176 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/27/1983 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/27/1983 | Sulfate | 777 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/27/1983 | Chlorine | 35 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/6/1984 | Uranium | 0.01696 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/6/1984 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/6/1984 | Sulfate | 998 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/6/1984 | Chlorine | 28 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/14/1984 | Uranium | 0.01696 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/14/1984 | Sulfate | 819 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/4/1984 | Uranium | 0.010176 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/4/1984 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 4/4/1984 | Sulfate | 829 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/4/1984 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/26/1984 | Uranium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 7/26/1984 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/26/1984 | Sulfate | 793 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/26/1984 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/12/1984 | Uranium | 0.010176 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/12/1984 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/12/1984 | Sulfate | 788 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/12/1984 | Chlorine | 35 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/17/1985 | Uranium | 0.01696 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/17/1985 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/17/1985 | Sulfate | 763 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/17/1985 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/10/1985 | Uranium | 0.02544 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/10/1985 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/10/1985 | Sulfate | 795 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/10/1985 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/22/1985 | Uranium | 0.01696 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/22/1985 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/22/1985 | Sulfate | 825 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/22/1985 | Chlorine | 28 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/4/1985 | Uranium | 0.00848 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/4/1985 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/4/1985 | Sulfate | 807 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/4/1985 | Chlorine | 35 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/9/1986 | Uranium | 0.01696 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/9/1986 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/9/1986 | Sulfate | 815 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/9/1986 | Chlorine | 35 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/8/1986 | Uranium | 0.010176 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/8/1986 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/8/1986 | Sulfate | 937 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/8/1986 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/16/1986 | Uranium | 0.020352 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/16/1986 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 7/16/1986 | Sulfate | 783 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/16/1986 | Chlorine | 35 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/13/1986 | Uranium | 0.01696 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/13/1986 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/13/1986 | Sulfate | 798 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/13/1986 | Chlorine | 28 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/8/1987 | Uranium | 0.01 | mg/L | 0 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|------------------------------|---------|---------------|----------|---------------|-------|----------|
| Upper Chinle Non-mixing Zone | CW3 | 1/8/1987 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/8/1987 | Sulfate | 768 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/8/1987 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/9/1987 | Uranium | 0.01696 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/9/1987 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/9/1987 | Sulfate | 772 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/9/1987 | Chlorine | 35 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/22/1987 | Uranium | 0.05088 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/22/1987 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/22/1987 | Sulfate | 816 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/22/1987 | Chlorine | 35 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/15/1987 | Uranium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 10/15/1987 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/15/1987 | Sulfate | 790 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/15/1987 | Chlorine | 21 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1988 | Uranium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1988 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1988 | Sulfate | 785 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1988 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/20/1988 | Uranium | 0.03392 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/20/1988 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/20/1988 | Sulfate | 811 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/20/1988 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/20/1988 | Uranium | 0.02544 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/20/1988 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/20/1988 | Sulfate | 846 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/20/1988 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/12/1988 | Uranium | 0.01696 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/12/1988 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/12/1988 | Sulfate | 845 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/12/1988 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/24/1989 | Uranium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 1/24/1989 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/24/1989 | Sulfate | 820 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 1/24/1989 | Chlorine | 57 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/25/1989 | Uranium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 4/25/1989 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/25/1989 | Sulfate | 867 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/25/1989 | Chlorine | 57 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 9/15/1989 | Uranium | 0.01696 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 9/15/1989 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 9/15/1989 | Sulfate | 843 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 9/15/1989 | Chlorine | 35 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/29/1989 | Uranium | 0.0424 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/29/1989 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/29/1989 | Sulfate | 843 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/15/1990 | Uranium | 0.01696 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/15/1990 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/15/1990 | Sulfate | 831 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/15/1990 | Chlorine | 35 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/8/1990 | Uranium | 0.0424 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/8/1990 | Selenium | 0.01 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/8/1990 | Sulfate | 840 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/20/1990 | Uranium | 0.05088 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/20/1990 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 5/20/1990 | Sulfate | 942 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/7/1990 | Uranium | 0.07632 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/7/1990 | Selenium | 0.01 | mg/L | 1 |

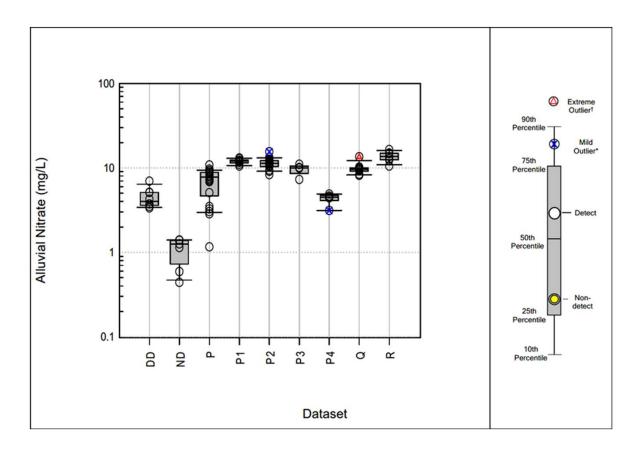
| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|---|---------|------------------------|--------------------|----------------|--------------|----------|
| Upper Chinle Non-mixing Zone | CW3 | 8/7/1990 | Sulfate | 811 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/7/1990 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/27/1990 | Uranium | 0.00848 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 11/27/1990 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/27/1990 | Sulfate | 743 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/27/1990 | Selenium | 0.002 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 11/27/1990 | Sulfate | 767 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/19/1991 | Uranium | 0.03392 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/19/1991 | Selenium | 0.02 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/19/1991 | Sulfate | 760 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/19/1991 | Chlorine | 35 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/15/1991 | Uranium | 0.06784 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/15/1991 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 5/15/1991 | Sulfate | 793 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/13/1991 | Uranium | 0.026 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/13/1991 | Uranium | 0.06784 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/13/1991 | Selenium | 0.002 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 8/13/1991 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 8/13/1991 | Sulfate | 716 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/13/1991 | Sulfate | 796 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/13/1991 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/13/1991 | Chlorine | 85 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/26/1991 | Uranium | 0.05088 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/26/1991 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 11/26/1991 | Sulfate | 805 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/20/1992 | Uranium | 0.06784 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/20/1992 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 2/20/1992 | Sulfate | 823 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/20/1992 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/20/1992 | Uranium | 0.05088 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/20/1992 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 5/20/1992 7/29/1992 | Sulfate | 942 0.01696 | mg/L | 1 |
| Upper Chinle Non-mixing Zone Upper Chinle Non-mixing Zone | CW3 | 7/29/1992 | Uranium Uranium | 0.0636 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/29/1992 | Selenium | 0.0030 | mg/L mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 7/29/1992 | Selenium | 0.026 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/29/1992 | Sulfate | 754 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/29/1992 | Sulfate | 789 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/29/1992 | Chlorine | 35 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/29/1992 | Chlorine | 42.5 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/4/1992 | Uranium | 0.02544 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/4/1992 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 11/4/1992 | Sulfate | 793 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/8/1993 | Uranium | 0.05088 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/8/1993 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 2/8/1993 | Sulfate | 827 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/8/1993 | Chlorine | 43 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/4/1993 | Uranium | 0.02544 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/4/1993 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 5/4/1993 | Sulfate | 876 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/11/1993 | Uranium | 0.010176 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/11/1993 | Uranium | 0.05936 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/11/1993 | Selenium | 0.001 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 8/11/1993 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 8/11/1993 | Sulfate | 646 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/11/1993 | Sulfate | 769 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/11/1993 | Chlorine | 40.7 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/11/1993 | Chlorine | 43 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|------------------------------|---------|---------------|----------|---------------|-------|----------|
| Upper Chinle Non-mixing Zone | CW3 | 11/1/1993 | Uranium | 0.011 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/1/1993 | Selenium | 0.001 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 11/1/1993 | Sulfate | 693 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1994 | Uranium | 0.019 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1994 | Selenium | 0.007 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1994 | Sulfate | 735 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1994 | Chlorine | 43.2 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1994 | Uranium | 0.025 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1994 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1994 | Sulfate | 737 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1994 | Chlorine | 46.8 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 3/9/1994 | Uranium | 0.027 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 3/9/1994 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 3/9/1994 | Sulfate | 752 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 3/9/1994 | Chlorine | 43.2 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/3/1994 | Uranium | 0.027 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/3/1994 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 5/3/1994 | Sulfate | 744 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/1/1994 | Uranium | 0.026 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/1/1994 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 8/1/1994 | Sulfate | 788 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/1/1994 | Chlorine | 41.9 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/1/1994 | Uranium | 0.027 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/1/1994 | Selenium | 0.005 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/1/1994 | Sulfate | 789 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1995 | Uranium | 0.026 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1995 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1995 | Sulfate | 699 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/2/1995 | Chlorine | 43.4 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/5/1995 | Uranium | 0.017 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/5/1995 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 5/5/1995 | Sulfate | 566 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/2/1995 | Uranium | 0.025 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/2/1995 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 8/2/1995 | Sulfate | 718 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/2/1995 | Chlorine | 40 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/15/1995 | Uranium | 0.033 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/15/1995 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 11/15/1995 | Sulfate | 743 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/27/1995 | Uranium | 0.0245 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/27/1995 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 11/27/1995 | Sulfate | 695 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/27/1995 | Chlorine | 41 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/12/1996 | Uranium | 0.03 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/12/1996 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 2/12/1996 | Sulfate | 712 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/12/1996 | Chlorine | 49.4 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/14/1996 | Uranium | 0.026 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/14/1996 | Selenium | 0.01 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 5/14/1996 | Sulfate | 731 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/31/1996 | Uranium | 0.0281 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/31/1996 | Selenium | 0.003 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/31/1996 | Sulfate | 741 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/31/1996 | Chlorine | 41.3 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/4/1996 | Uranium | 0.0266 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/4/1996 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 11/4/1996 | Sulfate | 730 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/4/1996 | Chlorine | 45.2 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|---|---------|------------------------|---------------------|---------------|--------------|----------|
| Upper Chinle Non-mixing Zone | CW3 | 2/3/1997 | Uranium | 0.026 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/3/1997 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 2/3/1997 | Sulfate | 743 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/3/1997 | Chlorine | 45.4 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/29/1997 | Uranium | 0.028 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/29/1997 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 4/29/1997 | Sulfate | 712 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/28/1997 | Uranium | 0.028 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 7/28/1997 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 7/28/1997 | Sulfate | 786 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/13/1997 | Uranium | 0.028 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/13/1997 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 10/13/1997 | Sulfate | 770 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/13/1997 | Chlorine | 41.5 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/10/1998 | Uranium | 0.0294 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/10/1998 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 2/10/1998 | Sulfate | 723 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/10/1998 | Chlorine | 42 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/5/1998 | Uranium | 0.0389 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/5/1998 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 5/5/1998 | Sulfate | 746 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/4/1998 | Uranium | 0.0315 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | | 8/4/1998 | Selenium | 0.005 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/4/1998 | Sulfate Chlorine | 757 44 | mg/L mg/L | 1 |
| Upper Chinle Non-mixing Zone Upper Chinle Non-mixing Zone | CW3 | 8/4/1998 10/28/1998 | Uranium | 0.031 | - | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 10/28/1998 | Selenium | 0.005 | mg/L mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 10/28/1998 | Sulfate | 844 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/3/1999 | Uranium | 0.0328 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/3/1999 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 2/3/1999 | Sulfate | 757 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/3/1999 | Chlorine | 46.7 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/11/1999 | Uranium | 0.0307 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 5/11/1999 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 5/11/1999 | Sulfate | 757 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/17/1999 | Uranium | 0.032 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/17/1999 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 8/17/1999 | Sulfate | 716 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/17/1999 | Chlorine | 45.3 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/9/1999 | Uranium | 0.025 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/9/1999 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 11/9/1999 | Sulfate | 771 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/8/2000 | Uranium | 0.0265 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/8/2000 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 2/8/2000 | Sulfate | 743.5 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/8/2000 | Chlorine | 46.7 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/27/2000 | Uranium | 0.029 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 4/27/2000 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 4/27/2000 | Sulfate | 818 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/2/2000 | Uranium | 0.01546 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/2/2000 | Selenium | 0.0075 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 8/2/2000 | Sulfate | 684 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 8/2/2000 | Chlorine | 43.4 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/28/2000 | Uranium | 0.02396 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 11/28/2000 | Selenium | 0.005 | mg/L | 0 |
| Upper Chinle Non-mixing Zone | CW3 | 11/28/2000 | Sulfate | 741 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/13/2001 | Uranium | 0.03521 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/13/2001 | Selenium | 0.009 | mg/L | 1 |

| Zone | Well ID | Sampling Date | Analyte | Result (mg/L) | Units | Detected |
|------------------------------|---------|---------------|----------|---------------|-------|----------|
| Upper Chinle Non-mixing Zone | CW3 | 2/13/2001 | Sulfate | 738 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 2/13/2001 | Chlorine | 56.8 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 6/5/2001 | Uranium | 0.034 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 6/5/2001 | Selenium | 0.007 | mg/L | 1 |
| Upper Chinle Non-mixing Zone | CW3 | 6/5/2001 | Sulfate | 755 | mg/L | 1 |

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| ARC | AD | IS | Box and Whisker Plot Alluvial Nitrate Grants Reclamation Project | | | | | | | | | | Figure 2.1 | | | |
|---------|-------|-----|--|-------|------|-------|------|------|---------|--------|------|------|---------------|-------|--|--|
| | | | Sample Size | | ND F | Range | | | Detects | | | Perc | entiles (Al | Data) | | |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th | | |
| DD | mg/L | 0 | 8 | 8 | NA | NA | 3.4 | 7.0 | 4.5 | 4.0 | 1.2 | 3.6 | 4.0 | 5.1 | | |
| ND | mg/L | 0 | 7 | 7 | NA | NA | 0.44 | 1.4 | 1.1 | 1.3 | 0.40 | 0.73 | 1.3 | 1.4 | | |
| Р | mg/L | 0 | 21 | 21 | NA | NA | 1.2 | 10.8 | 6.9 | 7.8 | 2.7 | 4.7 | 7.8 | 8.9 | | |
| P1 | mg/L | 0 | 9 | 9 | NA | NA | 10.5 | 13.1 | 11.9 | 12.1 | 0.82 | 11.4 | 12.1 | 12.4 | | |
| P2 | mg/L | 0 | 17 | 17 | NA | NA | 8.3 | 15.5 | 11.3 | 11.3 | 1.7 | 10.4 | 11.3 | 12.2 | | |
| P3 | mg/L | 0 | 4 | 4 | NA | NA | 7.3 | 11.0 | 9.6 | 10.0 | 1.6 | 8.6 | 10.0 | 10.6 | | |
| P4 | mg/L | 0 | 5 | 5 | NA | NA | 3.1 | 4.9 | 4.3 | 4.5 | 0.69 | 4.1 | 4.5 | 4.7 | | |
| Q | mg/L | 0 | 9 | 9 | NA | NA | 8.2 | 13.5 | 9.8 | 9.6 | 1.5 | 9.1 | 9.6 | 10.1 | | |
| R | mg/L | 0 | 7 | 7 | NA | NA | 10.5 | 16.4 | 13.6 | 13.6 | 2.0 | 12.4 | 13.6 | 14.9 | | |
| pooled | mg/L | 0 | 87 | 87 | NA | NA | 0.44 | 16.4 | 8.4 | 9.3 | 4.0 | 4.9 | 9.3 | 11.4 | | |

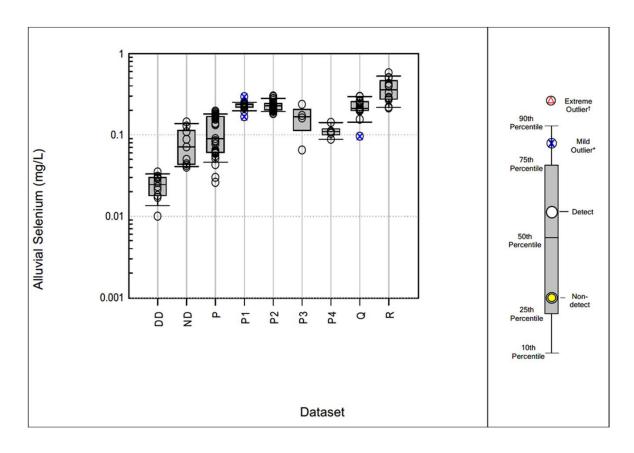
Notes:

- † Result value is < 25th percentile 3*IQR or > 75th percentile + 3*IQR
- * Result value is < 25th percentile 1.5*IQR or > 75th percentile + 1.5*IQR
 - -- = no data
 - IQR = interquartile range equals the 3rd quartile (75th percentile) 1st quartile (25th percentile)
 - NA = value not applicable due to frequency of detection
 - ND = nondetect
 - SD = standard deviation

Reporting limit is used for nondetects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 13, Systat Software.



| ARC | IS | Box and Whisker Plot Alluvial Selenium Grants Reclamation Project | | | | | | | | | | Figure 2.2 | | | |
|---------|-------|---|-------------|-------|------|-------|------|------|---------|--------|--------|---------------|--------------|-------|--|
| | | | Sample Size | | ND F | Range | | | Detects | | | Perc | entiles (All | Data) | |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th | |
| DD | mg/L | 0 | 10 | 10 | NA | NA | 0.01 | 0.04 | 0.02 | 0.02 | 0.0076 | 0.02 | 0.02 | 0.03 | |
| ND | mg/L | 0 | 9 | 9 | NA | NA | 0.04 | 0.14 | 0.08 | 0.07 | 0.04 | 0.04 | 0.07 | 0.11 | |
| Р | mg/L | 0 | 29 | 29 | NA | NA | 0.03 | 0.20 | 0.11 | 0.09 | 0.06 | 0.06 | 0.09 | 0.17 | |
| P1 | mg/L | 0 | 17 | 17 | NA | NA | 0.17 | 0.29 | 0.23 | 0.24 | 0.03 | 0.22 | 0.24 | 0.24 | |
| P2 | mg/L | 0 | 25 | 25 | NA | NA | 0.18 | 0.30 | 0.23 | 0.23 | 0.03 | 0.20 | 0.23 | 0.24 | |
| P3 | mg/L | 0 | 4 | 4 | NA | NA | 0.07 | 0.24 | 0.16 | 0.17 | 0.07 | 0.11 | 0.17 | 0.20 | |
| P4 | mg/L | 0 | 5 | 5 | NA | NA | 0.09 | 0.14 | 0.11 | 0.11 | 0.02 | 0.10 | 0.11 | 0.12 | |
| Q | mg/L | 0 | 13 | 13 | NA | NA | 0.10 | 0.30 | 0.22 | 0.21 | 0.06 | 0.20 | 0.21 | 0.26 | |
| R | mg/L | 0 | 12 | 12 | NA | NA | 0.21 | 0.58 | 0.37 | 0.36 | 0.12 | 0.28 | 0.36 | 0.46 | |
| pooled | mg/L | 0 | 124 | 124 | NA | NA | 0.01 | 0.58 | 0.18 | 0.19 | 0.11 | 0.09 | 0.19 | 0.24 | |

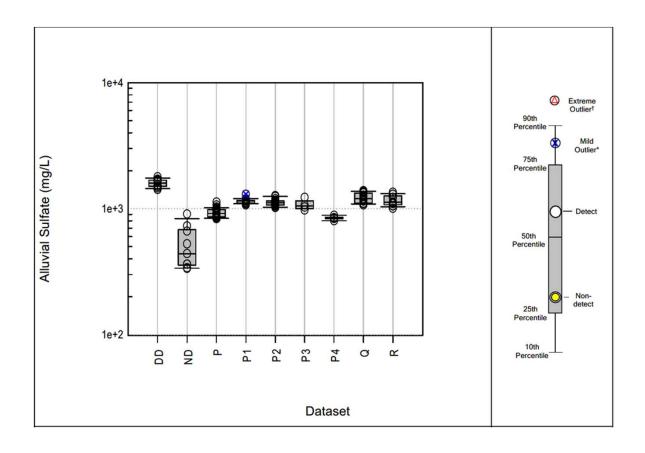
Notes:

- † Result value is < 25th percentile 3*IQR or > 75th percentile + 3*IQR
- * Result value is < 25th percentile 1.5*IQR or > 75th percentile + 1.5*IQR
 - -- = no data
 - IQR = interquartile range equals the 3rd quartile (75th percentile) 1st quartile (25th percentile)
 - NA = value not applicable due to frequency of detection
 - ND = nondetect
 - SD = standard deviation

Reporting limit is used for nondetects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 13, Systat Software.



| ARC | CAD | IS | | Box and Whisker Plot Alluvial Sulfate Grants Reclamation Project | | | | | | | | Figure 2.3 | | | | |
|---------|-------|-----|-------------|--|------|-------|-------|-------|---------|--------|------|---------------|------------------------|-------|--|--|
| | | 3 | Sample Size | | ND F | Range | | 60 10 | Detects | - 15 | | Perc | Percentiles (All Data) | | | |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th | | |
| DD | mg/L | 0 | 10 | 10 | NA | NA | 1,420 | 1,790 | 1,594 | 1,596 | 125 | 1,500 | 1,596 | 1,683 | | |
| ND | mg/L | 0 | 9 | 9 | NA | NA | 335 | 907 | 518 | 440 | 205 | 357 | 440 | 680 | | |
| Р | mg/L | 0 | 29 | 29 | NA | NA | 833 | 1,130 | 926 | 916 | 77.5 | 863 | 916 | 983 | | |
| P1 | mg/L | 0 | 17 | 17 | NA | NA | 1,069 | 1,300 | 1,145 | 1,150 | 55.0 | 1,106 | 1,150 | 1,166 | | |
| P2 | mg/L | 0 | 25 | 25 | NA | NA | 1,020 | 1,270 | 1,122 | 1,115 | 68.4 | 1,070 | 1,115 | 1,152 | | |
| P3 | mg/L | 0 | 4 | 4 | NA | NA | 975 | 1,230 | 1,076 | 1,050 | 110 | 1,003 | 1,050 | 1,150 | | |
| P4 | mg/L | 0 | 5 | 5 | NA | NA | 803 | 885 | 842 | 838 | 29.4 | 828 | 838 | 857 | | |
| Q | mg/L | 0 | 13 | 13 | NA | NA | 1,070 | 1,390 | 1,218 | 1,200 | 113 | 1,105 | 1,200 | 1,333 | | |
| R | mg/L | 0 | 12 | 12 | NA | NA | 1,007 | 1,350 | 1,163 | 1,125 | 113 | 1,075 | 1,125 | 1,263 | | |
| pooled | mg/L | 0 | 124 | 124 | NA | NA | 335 | 1,790 | 1,075 | 1,100 | 256 | 929 | 1,100 | 1,174 | | |

Notes:

 \uparrow Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

NA = value not applicable due to frequency of detection

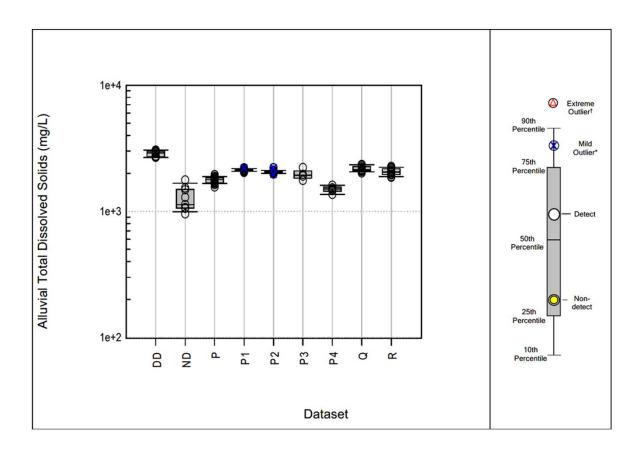
ND = nondetect

SD = standard deviation

Reporting limit is used for nondetects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 13, Systat Software.

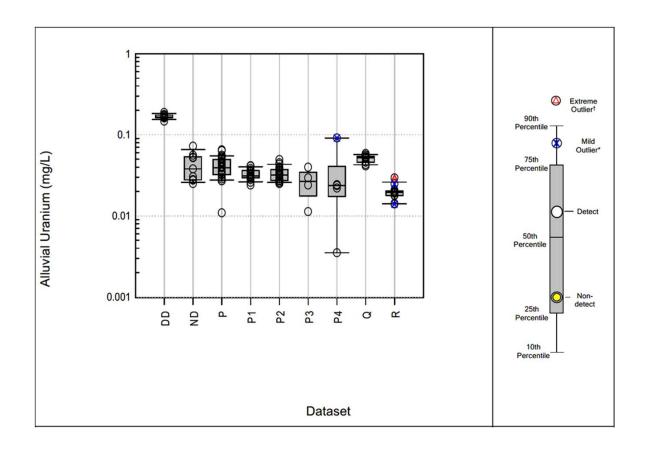


| ARC | AD | IS | | | Allu | vial To | nd Whis tal Diss Reclamatio | olved S | | | | | Figure 2.4 | |
|---------|-------|-----|------------|-------|------|---------|-----------------------------------|---------|---------|--------|------|-------|---------------|-------|
| | | | Sample Siz | :e | ND F | Range | | | Detects | J | | Perc | entiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| DD | mg/L | 0 | 10 | 10 | NA | NA | 2,680 | 3,054 | 2,867 | 2,900 | 153 | 2,710 | 2,900 | 3,010 |
| ND | mg/L | 0 | 9 | 9 | NA | NA | 954 | 1,770 | 1,260 | 1,130 | 276 | 1,059 | 1,130 | 1,493 |
| Р | mg/L | 0 | 29 | 29 | NA | NA | 1,560 | 1,950 | 1,766 | 1,790 | 98.0 | 1,680 | 1,790 | 1,845 |
| P1 | mg/L | 0 | 17 | 17 | NA | NA | 2,030 | 2,210 | 2,111 | 2,104 | 43.6 | 2,087 | 2,104 | 2,133 |
| P2 | mg/L | 0 | 25 | 25 | NA | NA | 1,970 | 2,210 | 2,074 | 2,070 | 53.8 | 2,050 | 2,070 | 2,094 |
| P3 | mg/L | 0 | 4 | 4 | NA | NA | 1,760 | 2,220 | 1,960 | 1,930 | 193 | 1,830 | 1,930 | 2,090 |
| P4 | mg/L | 0 | 5 | 5 | NA | NA | 1,360 | 1,610 | 1,494 | 1,500 | 91.3 | 1,443 | 1,500 | 1,550 |
| Q | mg/L | 0 | 13 | 13 | NA | NA | 2,015 | 2,350 | 2,176 | 2,140 | 114 | 2,082 | 2,140 | 2,265 |
| R | mg/L | 0 | 12 | 12 | NA | NA | 1,862 | 2,270 | 2,063 | 2,050 | 134 | 1,957 | 2,050 | 2,185 |
| pooled | mg/L | 0 | 124 | 124 | NA | NA | 954 | 3,054 | 1,995 | 2,050 | 380 | 1,795 | 2,050 | 2,117 |

- \dagger Result value is < 25th percentile 3*IQR or > 75th percentile + 3*IQR
- * Result value is < 25th percentile 1.5*IQR or > 75th percentile + 1.5*IQR
 - -- = no data
 - IQR = interquartile range equals the 3rd quartile (75th percentile) 1st quartile (25th percentile)
 - NA = value not applicable due to frequency of detection
 - ND = nondetect
 - SD = standard deviation

Reporting limit is used for nondetects unless otherwise noted.

 $Values\ less\ than\ 10\ are\ reported\ to\ 2\ significant\ figures.\ Values\ greater\ than\ 10\ are\ reported\ to\ 3\ significant\ figures.$



| ARC | AD | IS | | | | Allu | nd Whisl vial Ura Reclamatio | nium | t | | | | Figure 2.5 | |
|---------|-------|-----|------------|-------|------|-------|------------------------------------|------|---------|--------|--------|------|---------------|-------|
| | | | Sample Siz | :e | ND F | Range | | | Detects | | | Perd | entiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| DD | mg/L | 0 | 10 | 10 | NA | NA | 0.15 | 0.19 | 0.17 | 0.17 | 0.01 | 0.16 | 0.17 | 0.17 |
| ND | mg/L | 0 | 9 | 9 | NA | NA | 0.03 | 0.07 | 0.04 | 0.04 | 0.02 | 0.03 | 0.04 | 0.05 |
| P | mg/L | 0 | 29 | 29 | NA | NA | 0.01 | 0.07 | 0.04 | 0.04 | 0.01 | 0.03 | 0.04 | 0.05 |
| P1 | mg/L | 0 | 17 | 17 | NA | NA | 0.02 | 0.04 | 0.03 | 0.03 | 0.005 | 0.03 | 0.03 | 0.04 |
| P2 | mg/L | 0 | 25 | 25 | NA | NA | 0.03 | 0.05 | 0.03 | 0.03 | 0.0066 | 0.03 | 0.03 | 0.04 |
| P3 | mg/L | 0 | 4 | 4 | NA | NA | 0.01 | 0.04 | 0.03 | 0.03 | 0.01 | 0.02 | 0.03 | 0.04 |
| P4 | mg/L | 0 | 5 | 5 | NA | NA | 0.0035 | 0.09 | 0.03 | 0.02 | 0.03 | 0.02 | 0.02 | 0.04 |
| Q | mg/L | 0 | 13 | 13 | NA | NA | 0.04 | 0.06 | 0.05 | 0.05 | 0.0053 | 0.05 | 0.05 | 0.05 |
| R | mg/L | 0 | 12 | 12 | NA | NA | 0.01 | 0.03 | 0.02 | 0.02 | 0.0042 | 0.02 | 0.02 | 0.02 |
| pooled | mg/L | 0 | 124 | 124 | NA | NA | 0.0035 | 0.19 | 0.05 | 0.04 | 0.04 | 0.03 | 0.04 | 0.05 |

 \uparrow Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

NA = value not applicable due to frequency of detection

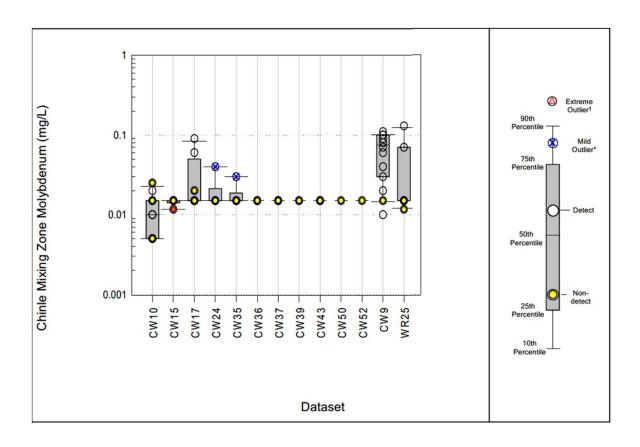
ND = nondetect

SD = standard deviation

Reporting limit is used for nondetects unless otherwise noted.

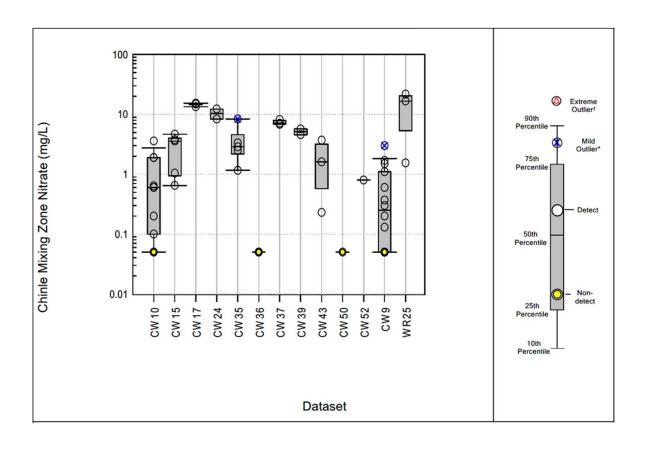
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

5 HH5 7 < A 9 BH'3' Chinle Mixing Zone



| ARC | AD | IS | | | Chinle | e Mixin | nd Whis g Zone Reclamatio | Molyb | | ĺ | | | Figure 3.1 | ř. |
|---------|-------|-----|------------|-------|--------|---------|---------------------------------|-------|---------|--------|-------|-------|---------------|-------|
| | | 1 | Sample Siz | e | ND R | lange | | | Detects | | | Perc | entiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| CW10 | mg/L | 6 | 4 | 10 | 0.005 | 0.03 | 0.01 | 0.02 | 0.01 | 0.01 | 0.005 | 0.005 | 0.01 | 0.02 |
| CW15 | mg/L | 5 | 0 | 5 | 0.01 | 0.02 | ND | ND | ND | ND | ND | 0.01 | 0.02 | 0.02 |
| CW17 | mg/L | 5 | 2 | 7 | 0.02 | 0.02 | 0.06 | 0.09 | 0.08 | 0.08 | 0.02 | 0.02 | 0.02 | 0.05 |
| CW24 | mg/L | 4 | 1 | 5 | 0.02 | 0.02 | 0.04 | 0.04 | 0.04 | 0.04 | NA | 0.02 | 0.02 | 0.02 |
| CW35 | mg/L | 4 | 1 | 5 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | NA | 0.02 | 0.02 | 0.02 |
| CW36 | mg/L | 4 | 0 | 4 | 0.02 | 0.02 | ND | ND | ND | ND | ND | 0.02 | 0.02 | 0.02 |
| CW37 | mg/L | 3 | 0 | 3 | 0.02 | 0.02 | ND | ND | ND | ND | ND | 0.02 | 0.02 | 0.02 |
| CW39 | mg/L | 2 | 0 | 2 | 0.02 | 0.02 | ND | ND | ND | ND | ND | 0.02 | 0.02 | 0.02 |
| CW43 | mg/L | 4 | 0 | 4 | 0.02 | 0.02 | ND | ND | ND | ND | ND | 0.02 | 0.02 | 0.02 |
| CW50 | mg/L | 1 | 0 | 1 | 0.02 | 0.02 | ND | ND | ND | ND | ND | 0.02 | 0.02 | 0.02 |
| CW52 | mg/L | 1 | 0 | 1 | 0.02 | 0.02 | ND | ND | ND | ND | ND | 0.02 | 0.02 | 0.02 |
| CW9 | mg/L | 1 | 13 | 14 | 0.02 | 0.02 | 0.01 | 0.11 | 0.07 | 0.08 | 0.03 | 0.03 | 0.08 | 0.10 |
| WR25 | mg/L | 4 | 2 | 6 | 0.01 | 0.02 | 0.07 | 0.13 | 0.10 | 0.10 | 0.04 | 0.02 | 0.02 | 0.07 |
| pooled | mg/L | 44 | 23 | 67 | 0.005 | 0.03 | 0.01 | 0.13 | 0.06 | 0.06 | 0.04 | 0.02 | 0.02 | 0.03 |

- † Result value is < 25th percentile 3*IQR or > 75th percentile + 3*IQR
- * Result value is < 25th percentile 1.5*IQR or > 75th percentile + 1.5*IQR
 - -- = no data
 - IQR = interquartile range equals the 3rd quartile (75th percentile) 1st quartile (25th percentile)
 - NA = value not applicable due to frequency of detection
 - ND = nondetect
 - SD = standard deviation
 - Reporting limit is used for nondetects unless otherwise noted.
 - Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.



| ARC | AD | IS | | | CH | inle Mi | nd Whis xing Zo Reclamatio | ne Nit | | | | | Figure 3.2 | |
|---------|-------|-----|------------|-------|------|---------|----------------------------------|--------|---------|--------|------|------|---------------|-------|
| | | | Sample Siz | re e | ND F | Range | | | Detects | | | Pero | entiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| CW10 | mg/L | 2 | 8 | 10 | 0.05 | 0.05 | 0.10 | 3.6 | 1.2 | 0.62 | 1.2 | 0.10 | 0.60 | 1.9 |
| CW15 | mg/L | 0 | 5 | 5 | NA | NA | 0.65 | 4.7 | 2.7 | 3.6 | 1.8 | 0.94 | 3.6 | 4.0 |
| CW17 | mg/L | 0 | 5 | 5 | NA | NA | 13.4 | 15.3 | 14.8 | 15.0 | 0.80 | 14.5 | 15.0 | 15.3 |
| CW24 | mg/L | 0 | 2 | 2 | NA | NA | 8.4 | 12.3 | 10.3 | 10.3 | 2.8 | 8.4 | 10.3 | 12.3 |
| CW35 | mg/L | 0 | 5 | 5 | NA | NA | 1.2 | 8.4 | 3.7 | 2.9 | 2.8 | 2.2 | 2.9 | 4.6 |
| CW36 | mg/L | 4 | 0 | 4 | 0.05 | 0.05 | ND | ND | ND | ND | ND | 0.05 | 0.05 | 0.05 |
| CW37 | mg/L | 0 | 3 | 3 | NA | NA | 6.8 | 8.2 | 7.4 | 7.1 | 0.74 | 6.9 | 7.1 | 7.9 |
| CW39 | mg/L | 0 | 2 | 2 | NA | NA | 4.6 | 5.7 | 5.2 | 5.2 | 0.81 | 4.6 | 5.2 | 5.7 |
| CW43 | mg/L | 0 | 3 | 3 | NA | NA | 0.23 | 3.7 | 1.9 | 1.6 | 1.8 | 0.57 | 1.6 | 3.2 |
| CW50 | mg/L | 1 | 0 | 1 | 0.05 | 0.05 | ND | ND | ND | ND | ND | 0.05 | 0.05 | 0.05 |
| CW52 | mg/L | 0 | 1 | 1 | NA | NA | 0.80 | 0.80 | 0.80 | 0.80 | NA | 0.80 | 0.80 | 0.80 |
| CW9 | mg/L | 5 | 9 | 14 | 0.05 | 0.05 | 0.13 | 3.0 | 0.99 | 0.60 | 0.95 | 0.05 | 0.25 | 1.1 |
| WR25 | mg/L | 0 | 3 | 3 | NA | NA | 1.6 | 21.8 | 13.4 | 16.7 | 10.5 | 5.3 | 16.7 | 20.5 |
| pooled | mg/L | 12 | 46 | 58 | 0.05 | 0.05 | 0.10 | 21.8 | 4.9 | 2.7 | 5.6 | 0.20 | 1.5 | 4.7 |

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

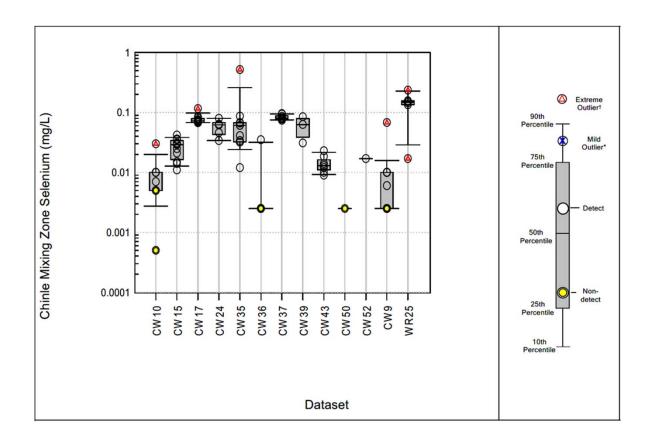
NA = value not applicable due to frequency of detection

ND = nondetect

SD = standard deviation

Reporting limit is used for nondetects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.



| ARC | AD | IS | | | Chi | nle Mix | nd Whis ing Zor Reclamatio | ie Sele | | | | | Figure 3.3 | |
|---------|-------|-----|------------|-------|--------|---------|----------------------------------|---------|---------|--------|--------|--------|---------------|--------|
| | | | Sample Siz | e | ND F | Range | 1 | | Detects | | | Pero | entiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| CW10 | mg/L | 2 | 8 | 10 | 0.0005 | 0.005 | 0.005 | 0.03 | 0.01 | 0.01 | 0.0077 | 0.005 | 0.01 | 0.01 |
| CW15 | mg/L | 0 | 11 | 11 | NA | NA | 0.01 | 0.04 | 0.03 | 0.03 | 0.01 | 0.02 | 0.03 | 0.03 |
| CW17 | mg/L | 0 | 11 | 11 | NA | NA | 0.07 | 0.12 | 0.08 | 0.07 | 0.01 | 0.07 | 0.07 | 0.08 |
| CW24 | mg/L | 0 | 5 | 5 | NA | NA | 0.03 | 0.08 | 0.06 | 0.06 | 0.02 | 0.04 | 0.06 | 0.07 |
| CW35 | mg/L | 0 | 11 | 11 | NA | NA | 0.01 | 0.52 | 0.09 | 0.06 | 0.14 | 0.03 | 0.06 | 0.07 |
| CW36 | mg/L | 5 | 1 | 6 | 0.0025 | 0.0025 | 0.04 | 0.04 | 0.04 | 0.04 | NA | 0.0025 | 0.0025 | 0.0025 |
| CW37 | mg/L | 0 | 9 | 9 | NA | NA | 0.07 | 0.10 | 0.08 | 0.08 | 0.0074 | 0.08 | 0.08 | 0.09 |
| CW39 | mg/L | 0 | 3 | 3 | NA | NA | 0.03 | 0.09 | 0.06 | 0.06 | 0.03 | 0.04 | 0.06 | 0.08 |
| CW43 | mg/L | 0 | 8 | 8 | NA | NA | 0.009 | 0.02 | 0.01 | 0.01 | 0.0046 | 0.01 | 0.01 | 0.02 |
| CW50 | mg/L | 1 | 0 | 1 | 0.0025 | 0.0025 | ND | ND | ND | ND | ND | 0.0025 | 0.0025 | 0.0025 |
| CW52 | mg/L | 0 | 1 | 1 | NA | NA | 0.02 | 0.02 | 0.02 | 0.02 | NA | 0.02 | 0.02 | 0.02 |
| CW9 | mg/L | 5 | 9 | 14 | 0.0025 | 0.0025 | 0.006 | 0.07 | 0.02 | 0.01 | 0.02 | 0.0025 | 0.01 | 0.01 |
| WR25 | mg/L | 0 | 6 | 6 | NA | NA | 0.02 | 0.24 | 0.14 | 0.15 | 0.07 | 0.13 | 0.15 | 0.16 |
| pooled | mg/L | 13 | 83 | 96 | 0.0005 | 0.005 | 0.005 | 0.52 | 0.06 | 0.04 | 0.07 | 0.01 | 0.03 | 0.07 |

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

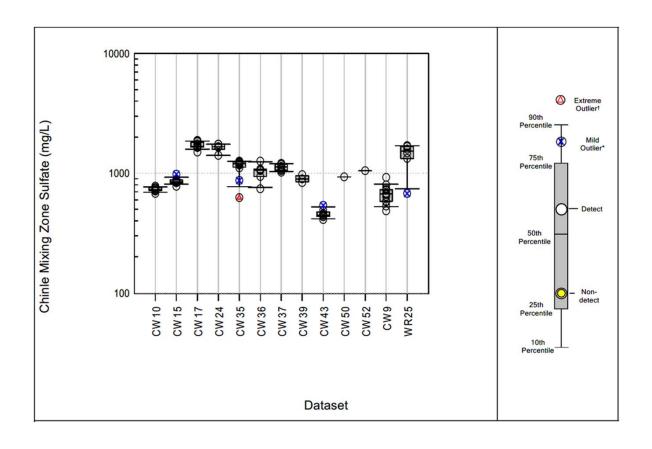
NA = value not applicable due to frequency of detection

ND = nondetect

SD = standard deviation

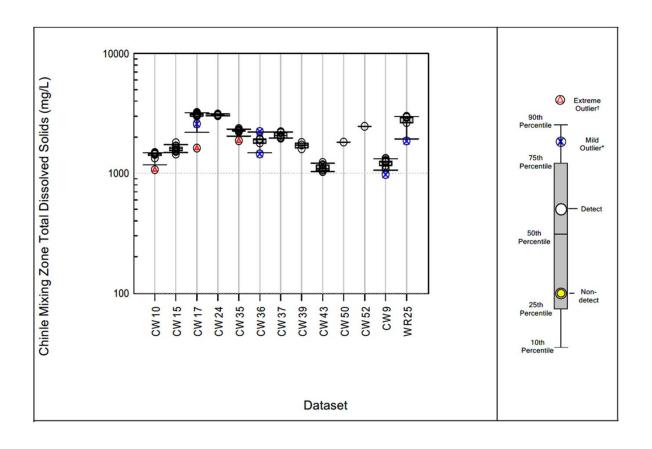
Reporting limit is used for nondetects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

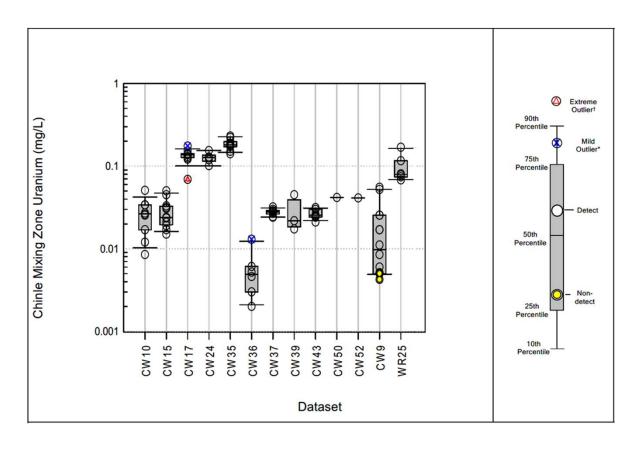


| ARC | AD | IS | | | CH | inle Mi | nd Whis xing Zo Reclamation | ne Sul | | | | | Figure 3.4 | 1 |
|---------|-------|-----|------------|-------|------|---------|-----------------------------------|--------|---------|--------|------|-------|---------------|-------|
| | | 3 | Sample Siz | te | ND F | Range | | | Detects | | | Pero | entiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| CW10 | mg/L | 0 | 10 | 10 | NA | NA | 678 | 780 | 734 | 733 | 29.4 | 719 | 733 | 760 |
| CW15 | mg/L | 0 | 11 | 11 | NA | NA | 777 | 982 | 860 | 853 | 50.0 | 836 | 853 | 878 |
| CW17 | mg/L | 0 | 11 | 11 | NA | NA | 1,503 | 1,880 | 1,712 | 1,680 | 110 | 1,653 | 1,680 | 1,813 |
| CW24 | mg/L | 0 | 5 | 5 | NA | NA | 1,410 | 1,750 | 1,645 | 1,670 | 140 | 1,588 | 1,670 | 1,750 |
| CW35 | mg/L | 0 | 11 | 11 | NA | NA | 626 | 1,260 | 1,126 | 1,200 | 199 | 1,125 | 1,200 | 1,240 |
| CW36 | mg/L | 0 | 6 | 6 | NA | NA | 742 | 1,262 | 1,024 | 1,060 | 173 | 940 | 1,060 | 1,080 |
| CW37 | mg/L | 0 | 9 | 9 | NA | NA | 1,020 | 1,207 | 1,121 | 1,130 | 68.7 | 1,061 | 1,130 | 1,186 |
| CW39 | mg/L | 0 | 3 | 3 | NA | NA | 836 | 972 | 901 | 896 | 68.2 | 851 | 896 | 953 |
| CW43 | mg/L | 0 | 8 | 8 | NA | NA | 409 | 538 | 459 | 447 | 39.5 | 439 | 447 | 475 |
| CW50 | mg/L | 0 | 1 | 1 | NA | NA | 934 | 934 | 934 | 934 | NA | 934 | 934 | 934 |
| CW52 | mg/L | 0 | 1 | 1 | NA | NA | 1,050 | 1,050 | 1,050 | 1,050 | NA | 1,050 | 1,050 | 1,050 |
| CW9 | mg/L | 0 | 14 | 14 | NA | NA | 485 | 923 | 673 | 674 | 112 | 584 | 674 | 731 |
| WR25 | mg/L | 0 | 6 | 6 | NA | NA | 678 | 1,700 | 1,407 | 1,533 | 382 | 1,330 | 1,533 | 1,670 |
| pooled | mg/L | 0 | 96 | 96 | NA | NA | 409 | 1,880 | 1,028 | 929 | 403 | 724 | 929 | 1,250 |

- \dagger Result value is < 25th percentile 3*IQR or > 75th percentile + 3*IQR
- * Result value is < 25th percentile 1.5*IQR or > 75th percentile + 1.5*IQR
 - -- = no data
 - IQR = interquartile range equals the 3rd quartile (75th percentile) 1st quartile (25th percentile)
 - NA = value not applicable due to frequency of detection
 - ND = nondetect
 - SD = standard deviation
 - Reporting limit is used for nondetects unless otherwise noted.
 - Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.



| ARC | AD | IS | | Chi | nle Mix | ing Zo | nd Whis ne Tota Reclamatio | l Disso | | olids | | | Figure 3.5 |) i |
|--|---------------|----------------------------|------------|------------|--------------|-----------|----------------------------------|--------------|-----------|--------|--------|-----------|---------------|-------|
| | | | Sample Siz | ze | ND F | lange | | | Detects | | | Pero | centiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| CW10 | mg/L | 0 | 9 | 9 | NA | NA | 1,070 | 1,490 | 1,401 | 1,450 | 131 | 1,409 | 1,450 | 1,469 |
| CW15 | mg/L | 0 | 11 | 11 | NA | NA | 1,446 | 1,800 | 1,606 | 1,610 | 93.8 | 1,545 | 1,610 | 1,655 |
| CW17 | mg/L | 0 | 11 | 11 | NA | NA | 1,620 | 3,217 | 2,941 | 3,103 | 473 | 3,005 | 3,103 | 3,193 |
| CW24 | mg/L | 0 | 5 | 5 | NA | NA | 3,020 | 3,120 | 3,071 | 3,074 | 36.1 | 3,050 | 3,074 | 3,090 |
| CW35 | mg/L | 0 | 10 | 10 | NA | NA | 1,870 | 2,360 | 2,243 | 2,281 | 136 | 2,250 | 2,281 | 2,300 |
| CW36 | mg/L | 0 | 6 | 6 | NA | NA | 1,450 | 2,232 | 1,870 | 1,905 | 253 | 1,790 | 1,905 | 1,940 |
| CW37 | mg/L | 0 | 9 | 9 | NA | NA | 1,960 | 2,222 | 2,074 | 2,070 | 102 | 1,981 | 2,070 | 2,182 |
| CW39 | mg/L | 0 | 3 | 3 | NA | NA | 1,600 | 1,805 | 1,708 | 1,720 | 103 | 1,630 | 1,720 | 1,784 |
| CW43 | mg/L | 0 | 8 | 8 | NA | NA | 1,030 | 1,230 | 1,112 | 1,093 | 71.3 | 1,055 | 1,093 | 1,170 |
| CW50 | mg/L | 0 | 1 | 1 | NA | NA | 1,820 | 1,820 | 1,820 | 1,820 | NA | 1,820 | 1,820 | 1,820 |
| CW52 | mg/L | 0 | 1 | 1 | NA | NA | 2,460 | 2,460 | 2,460 | 2,460 | NA | 2,460 | 2,460 | 2,460 |
| CW9 | mg/L | 0 | 14 | 14 | NA | NA | 976 | 1,330 | 1,214 | 1,246 | 99.9 | 1,163 | 1,246 | 1,266 |
| WR25 | mg/L | 0 | 6 | 6 | NA | NA | 1,862 | 2,987 | 2,714 | 2,925 | 435 | 2,646 | 2,925 | 2,940 |
| pooled | mg/L | 0 | 94 | 94 | NA | NA | 976 | 3,217 | 1,935 | 1,803 | 684 | 1,340 | 1,803 | 2,300 |
| pooled Notes: † Result value is * * Result value is * | 25th percen | tile - 3*10 tile - 1.5' | QR or > 75 | oth percer | ntile + 3*10 | QR | 976 | 3,217 | 1,935 | 1,803 | 684 | 1,340 | 1,803 | 2,3 |
| IQ | 100000 000000 | | nge equals | the 3rd | nuartile (7 | 5th nerce | ntile) - 1st | quartile (2 | 5th perce | ntile) | | | | |
| N. | 100 | | cable due | | | • | , - 100 | qua. mo (a | .c poroc | , | | | | |
| N | | | 0000 | io noque | , 0, 000 | | | | | | | | | |
| S | | | tion | | | | | | | | | | | |
| 0. | | | used for r | ondetect | s unless o | therwise | noted | | | | | | | |
| | | • | 10 are rep | | | | | enates these | - 40 | | 0 -116 | at Causes | | |

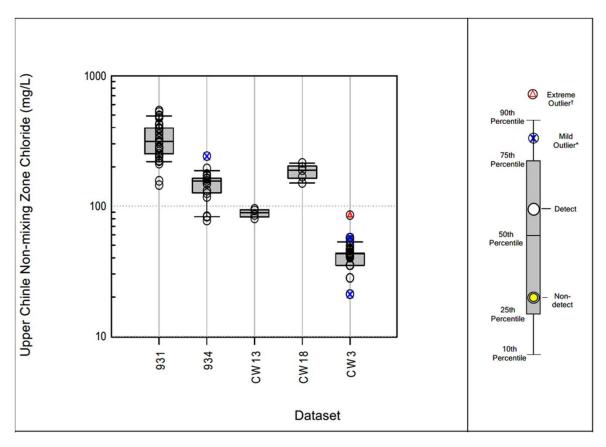


| ARC | AD | IS | | | Chi | nle Mi | nd Whisk king Zor Reclamation | ne Ura | | | | | Figure 3.6 | |
|---------|-------|-----|------------|-------|---------|--------|-------------------------------------|--------|---------|--------|--------|-------|---------------|--------|
| | | | Sample Siz | e | ND R | ange | | | Detects | | | Per | centiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| CW10 | mg/L | 0 | 10 | 10 | NA | NA | 0.00848 | 0.05 | 0.03 | 0.03 | 0.01 | 0.02 | 0.03 | 0.03 |
| CW15 | mg/L | 0 | 11 | 11 | NA | NA | 0.02 | 0.05 | 0.03 | 0.02 | 0.01 | 0.02 | 0.02 | 0.03 |
| CW17 | mg/L | 0 | 11 | 11 | NA | NA | 0.07 | 0.18 | 0.13 | 0.14 | 0.03 | 0.13 | 0.14 | 0.14 |
| CW24 | mg/L | 0 | 5 | 5 | NA | NA | 0.10 | 0.15 | 0.13 | 0.13 | 0.02 | 0.11 | 0.13 | 0.14 |
| CW35 | mg/L | 0 | 11 | 11 | NA | NA | 0.14 | 0.23 | 0.18 | 0.18 | 0.03 | 0.17 | 0.18 | 0.20 |
| CW36 | mg/L | 0 | 6 | 6 | NA | NA | 0.002 | 0.01 | 0.0057 | 0.0049 | 0.0039 | 0.003 | 0.0049 | 0.0061 |
| CW37 | mg/L | 0 | 9 | 9 | NA | NA | 0.02 | 0.03 | 0.03 | 0.03 | 0.0025 | 0.03 | 0.03 | 0.03 |
| CW39 | mg/L | 0 | 3 | 3 | NA | NA | 0.02 | 0.05 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.04 |
| CW43 | mg/L | 0 | 8 | 8 | NA | NA | 0.02 | 0.03 | 0.03 | 0.03 | 0.0036 | 0.02 | 0.03 | 0.03 |
| CW50 | mg/L | 0 | 1 | 1 | NA | NA | 0.04 | 0.04 | 0.04 | 0.04 | NA | 0.04 | 0.04 | 0.04 |
| CW52 | mg/L | 0 | 1 | 1 | NA | NA | 0.04 | 0.04 | 0.04 | 0.04 | NA | 0.04 | 0.04 | 0.04 |
| CW9 | mg/L | 2 | 12 | 14 | 0.00424 | 0.005 | 0.005 | 0.06 | 0.02 | 0.01 | 0.02 | 0.005 | 0.0098 | 0.03 |
| WR25 | mg/L | 0 | 6 | 6 | NA | NA | 0.07 | 0.17 | 0.10 | 0.08 | 0.04 | 0.07 | 0.08 | 0.12 |
| pooled | mg/L | 2 | 94 | 96 | 0.00424 | 0.005 | 0.002 | 0.23 | 0.07 | 0.03 | 0.06 | 0.02 | 0.03 | 0.12 |

- † Result value is < 25th percentile 3*IQR or > 75th percentile + 3*IQR
- * Result value is < 25th percentile 1.5*IQR or > 75th percentile + 1.5*IQR

 - IQR = interquartile range equals the 3rd quartile (75th percentile) 1st quartile (25th percentile)
 - NA = value not applicable due to frequency of detection
 - ND = nondetect
 - SD = standard deviation
 - Reporting limit is used for nondetects unless otherwise noted.
 - Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

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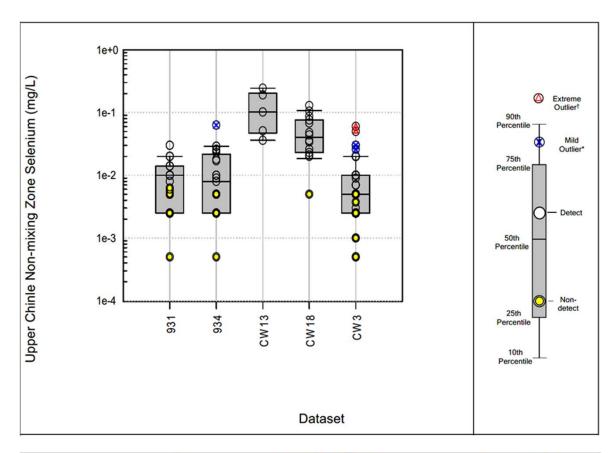


| ARC | AD | IS | | Up | per Cl | ninle No | nd Whis on-mixi Reclamatio | ng Zon | | ride | | | Figure 4.1 | 9 |
|---------|-------|-----|------------|-------|--------|----------|----------------------------------|--------|---------|--------|------|------|---------------|-------|
| | | | Sample Siz | :e | ND F | Range | | | Detects | | | Perc | entiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| 0931 | mg/L | 0 | 34 | 34 | NA | NA | 145 | 540 | 331 | 313 | 102 | 252 | 313 | 397 |
| 0934 | mg/L | 0 | 19 | 19 | NA | NA | 77.1 | 241 | 148 | 156 | 39.8 | 127 | 156 | 163 |
| CW13 | mg/L | 0 | 4 | 4 | NA | NA | 80.2 | 94.9 | 88.2 | 88.8 | 6.7 | 82.8 | 88.8 | 93.6 |
| CW18 | mg/L | 0 | 5 | 5 | NA | NA | 150 | 214 | 184 | 188 | 25.3 | 164 | 188 | 203 |
| CW3 | mg/L | 0 | 65 | 65 | NA | NA | 21.0 | 85.0 | 42.3 | 43.0 | 9.1 | 35.0 | 43.0 | 43.5 |
| pooled | mg/L | 0 | 127 | 127 | NA | NA | 21.0 | 540 | 142 | 57.0 | 134 | 43.0 | 57.0 | 219 |

- † Result value is < 25th percentile 3*IQR or > 75th percentile + 3*IQR
- * Result value is < 25th percentile 1.5*IQR or > 75th percentile + 1.5*IQR
 - = no data
 - IQR = interquartile range equals the 3rd quartile (75th percentile) 1st quartile (25th percentile)
 - NA = value not applicable due to frequency of detection
 - ND = nondetect
 - SD = standard deviation

Reporting limit is used for nondetects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

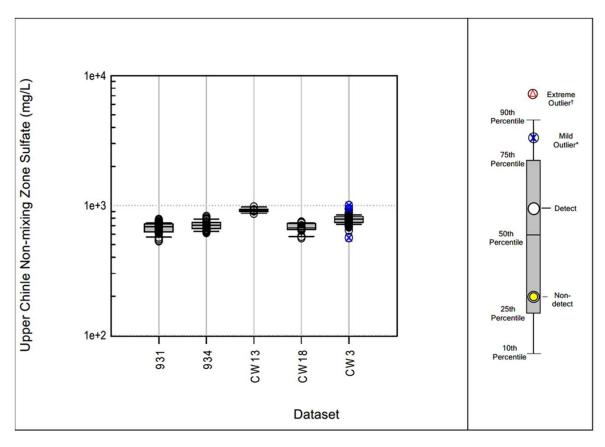


| ARC | AD | IS | | Up | per Ch | inle No | d Whis n-mixir Reclamatio | ng Zon | | nium | | | Figure 4.2 | |
|---------|-------|-----|------------|-------|--------|---------|---------------------------------|--------|---------|--------|--------|--------|---------------|-------|
| T | | | Sample Siz | ze . | ND F | Range | | | Detects | | , | Perc | entiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| 0931 | mg/L | 15 | 19 | 34 | 0.0005 | 0.00625 | 0.008 | 0.03 | 0.02 | 0.01 | 0.0068 | 0.0025 | 0.01 | 0.01 |
| 0934 | mg/L | 11 | 12 | 23 | 0.0005 | 0.005 | 0.008 | 0.06 | 0.02 | 0.02 | 0.02 | 0.0025 | 0.008 | 0.02 |
| CW13 | mg/L | 0 | 5 | 5 | NA | NA | 0.04 | 0.24 | 0.12 | 0.10 | 0.09 | 0.05 | 0.10 | 0.20 |
| CW18 | mg/L | 1 | 13 | 14 | 0.005 | 0.005 | 0.02 | 0.13 | 0.06 | 0.04 | 0.04 | 0.02 | 0.04 | 0.08 |
| CW3 | mg/L | 47 | 42 | 89 | 0.0005 | 0.005 | 0.003 | 0.06 | 0.02 | 0.01 | 0.01 | 0.0025 | 0.005 | 0.01 |
| pooled | mg/L | 74 | 91 | 165 | 0.0005 | 0.00625 | 0.003 | 0.24 | 0.03 | 0.02 | 0.04 | 0.0025 | 0.009 | 0.02 |

- † Result value is < 25th percentile 3*IQR or > 75th percentile + 3*IQR
- * Result value is < 25th percentile 1.5*IQR or > 75th percentile + 1.5*IQR
 - -- = no data
 - IQR = interquartile range equals the 3rd quartile (75th percentile) 1st quartile (25th percentile)
 - NA = value not applicable due to frequency of detection
 - ND = nondetect
 - SD = standard deviation

Reporting limit is used for nondetects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

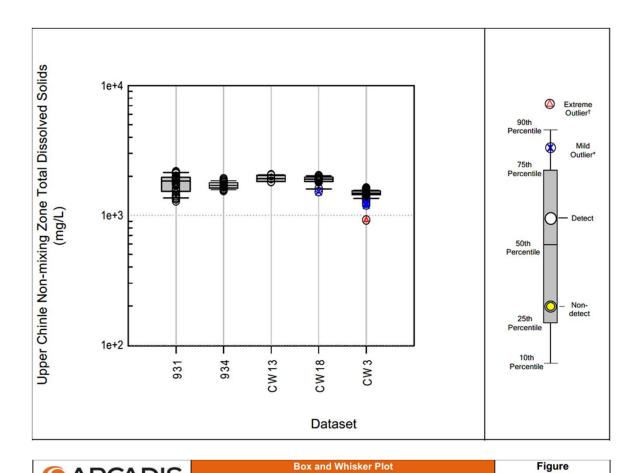


| ARC | AD | IS | | U | pper C | hinle N | nd Whis on-mix Reclamatio | ing Zo | | ate | | | Figure 4.3 | |
|---------|-------|-----|------------|-------|--------|---------|---------------------------------|--------|---------|--------|------|------|---------------|-------|
| T | | | Sample Siz | re | ND F | Range | | | Detects | | | Perc | entiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| 0931 | mg/L | 0 | 34 | 34 | NA | NA | 535 | 779 | 673 | 690 | 63.5 | 626 | 690 | 722 |
| 0934 | mg/L | 0 | 23 | 23 | NA | NA | 620 | 821 | 712 | 706 | 56.0 | 666 | 706 | 744 |
| CW13 | mg/L | 0 | 5 | 5 | NA | NA | 872 | 973 | 919 | 915 | 36.2 | 901 | 915 | 936 |
| CW18 | mg/L | 0 | 14 | 14 | NA | NA | 565 | 744 | 677 | 674 | 56.0 | 655 | 674 | 728 |
| CW3 | mg/L | 0 | 91 | 91 | NA | NA | 566 | 998 | 786 | 787 | 63.6 | 744 | 787 | 822 |
| pooled | mg/L | 0 | 167 | 167 | NA | NA | 535 | 998 | 747 | 744 | 84.4 | 699 | 744 | 795 |

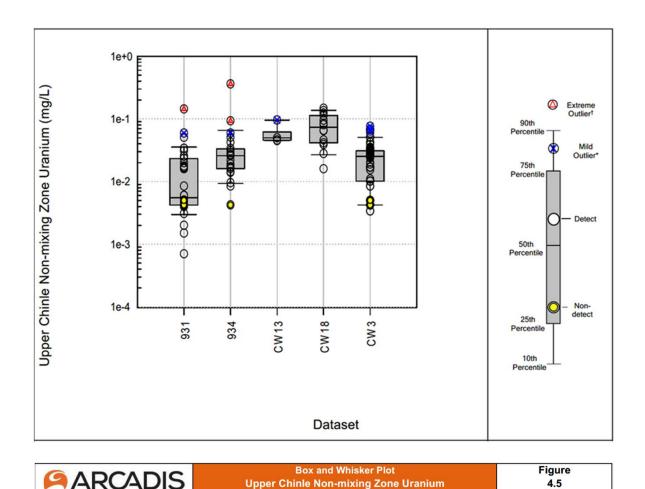
- † Result value is < 25th percentile 3*IQR or > 75th percentile + 3*IQR
- * Result value is < 25th percentile 1.5*IQR or > 75th percentile + 1.5*IQR
 - -- = no data
 - IQR = interquartile range equals the 3rd quartile (75th percentile) 1st quartile (25th percentile)
 - NA = value not applicable due to frequency of detection
 - ND = nondetect
 - SD = standard deviation

Reporting limit is used for nondetects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

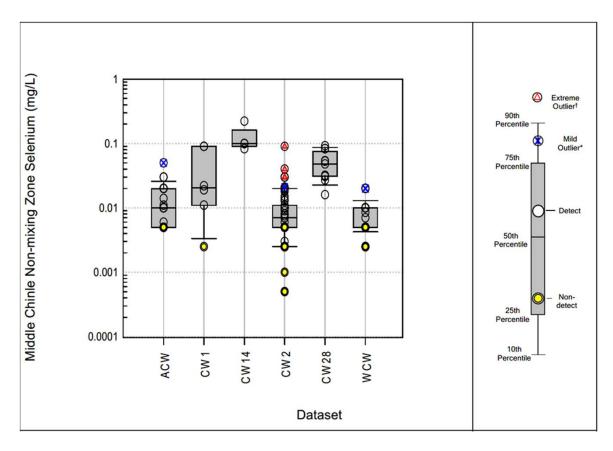


| | | 1 | Sample Siz | ze | ND F | Range | | | Detects | | | Perc | entiles (All | Data) |
|--|-----------------------|------------|---------------------|-----------|----------------------|-----------------------|--------------|-------------|-----------|------------|------------|---------------|--------------|-------|
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| 0931 | mg/L | 0 | 34 | 34 | NA | NA | 1,290 | 2,160 | 1,765 | 1,841 | 276 | 1,530 | 1,841 | 1,960 |
| 0934 | mg/L | 0 | 23 | 23 | NA | NA | 1,549 | 1,910 | 1,711 | 1,700 | 106 | 1,620 | 1,700 | 1,788 |
| CW13 | mg/L | 0 | 5 | 5 | NA | NA | 1,820 | 2,050 | 1,927 | 1,921 | 108 | 1,823 | 1,921 | 2,029 |
| CW18 | mg/L | 0 | 14 | 14 | NA | NA | 1,522 | 2,010 | 1,865 | 1,895 | 144 | 1,820 | 1,895 | 1,970 |
| CW3 | mg/L | 0 | 90 | 90 | NA | NA | 920 | 1,620 | 1,474 | 1,481 | 101 | 1,441 | 1,481 | 1,540 |
| pooled | mg/L | 0 | 166 | 166 | NA | NA | 920 | 2,160 | 1,613 | 1,550 | 222 | 1,461 | 1,550 | 1,780 |
| † Result value is < * Result value is < | 25th percer | ntile - 1. | | | | | | | | | | | | |
| IQR | 23. 77 | | inge equal | s the 3rd | quartile (| 75th nero | entile) - 1s | st quartile | (25th ner | centile) | | | | |
| NA NA | and the second second | | icable due | | Carlotte Marie Cont. | and the second second | oridio) it | or quartile | (Zour por | ocitaio) | | | | |
| | | | | | | | | | | | | | | |
| ND | | | | | | | | | | | | | | |
| | | ard devia | ation | | | | | | | | | | | |
| ND | = standa | | ation s used for | nondetec | ts unless | otherwise | e noted. | | | | | | | |
| ND | = standa Reportin | g limit is | s used for | | | | | greater th | an 10 are | reported t | o 3 signif | ficant figure | es. | |



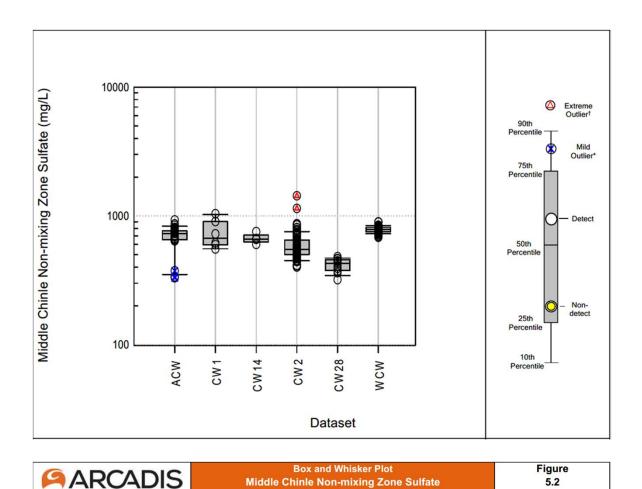
| Dataset | | 5 | Sample Siz | e e | ND F | ange | 110 | | Detects | | | Perc | entiles (All | Data) |
|--|---|--|--|--|----------------------------|-------------------------------------|---------------|------------|-----------|----------|------------|---------------|--------------|-------|
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75tl |
| 931 | mg/L | 11 | 23 | 34 | 0.00424 | 0.005 | 0.0007 | 0.14 | 0.02 | 0.02 | 0.03 | 0.0042 | 0.0055 | 0.02 |
| 934 | mg/L | 1 | 22 | 23 | 0.00424 | 0.00424 | 0.00848 | 0.36 | 0.04 | 0.03 | 0.07 | 0.02 | 0.03 | 0.03 |
| CW13 | mg/L | 0 | 5 | 5 | NA | NA | 0.05 | 0.10 | 0.06 | 0.05 | 0.02 | 0.05 | 0.05 | 0.06 |
| CW18 | mg/L | 0 | 14 | 14 | NA | NA | 0.02 | 0.15 | 0.08 | 0.07 | 0.04 | 0.04 | 0.07 | 0.11 |
| CW3 | mg/L | 14 | 76 | 90 | 0.00424 | 0.005 | 0.00339 | 0.08 | 0.03 | 0.03 | 0.02 | 0.01 | 0.03 | 0.03 |
| pooled | mg/L | 26 | 140 | 166 | 0.00424 | 0.005 | 0.0007 | 0.36 | 0.04 | 0.03 | 0.04 | 0.01 | 0.03 | 0.03 |
| † Result value is < 2 | 25th percer | ntile - 3* | IQR or > 7 | 5th perc | entile + 3* | IQR | | | | | | | | |
| * Result value is < 2 | Carlo | | | | | | | | | | | | | |
| • | Carlo | tile - 1.5 | | | | | | | | | | | | |
| * Result value is < 2 | 25th percen = no data | itile - 1.5 a | 5*IQR or > | 75th pe | rcentile + | 1.5*IQR | entile) - 1st | t quartile | (25th per | centile) | | | | |
| * Result value is < 2 | 25th percen = no data = interqu | itile - 1.5 a iartile ra | 5*IQR or > | 75th pe | rcentile + | 1.5*IQR 75th perc | entile) - 1st | t quartile | (25th per | centile) | | | | |
| * Result value is < 2 IQR | 25th percen = no data = interqu | itile - 1.5 a uartile ra not appli | 5*IQR or > | 75th pe | rcentile + | 1.5*IQR 75th perc | entile) - 1st | t quartile | (25th per | centile) | | | | |
| * Result value is < 2 IQR NA | 25th percen = no data = interqu = value r | atile - 1.5 a partile ra not appli tect | s*IQR or > nge equal cable due | 75th pe | rcentile + | 1.5*IQR 75th perc | entile) - 1st | t quartile | (25th per | centile) | | | | |
| * Result value is < 2 IQR NA ND | 25th percen = no data = interqu = value r = nonder = standa | atile - 1.5 a partile ra not appli tect ard devia | s*IQR or > nge equal cable due | 75th pe s the 3rd to frequ | rcentile + | 1.5*IQR 75th percentection | | t quartile | (25th per | centile) | | | | |
| * Result value is < 2 IQR NA ND | 2.5th percen = no data = interqu = value r = nondel = standa Reportin | atile - 1.5 a partile ra not appli tect ard devia | s*IQR or > nge equals cable due ation s used for r | 75th pe s the 3rd to frequenondete | d quartile (ency of de | 1.5*IQR 75th percetection otherwise | e noted. | | | , | o 3 signii | ficant figure | es. | |

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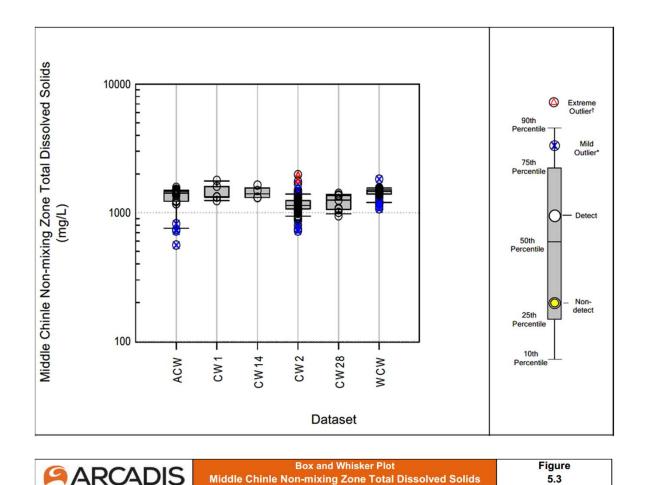


| ARC | IS | | Mi | ddle Ch | | | Figure 5.1 | | | | | | | |
|---------|-------|-----|------------|---------|--------|--------|---------------|------|---------|--------|--------|-------|--------------|-------|
| | | , | Sample Siz | e | ND F | Range | | , | Detects | | | Perc | entiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| ACW | mg/L | 9 | 20 | 29 | 0.005 | 0.005 | 0.006 | 0.05 | 0.02 | 0.01 | 0.01 | 0.005 | 0.01 | 0.02 |
| CW1 | mg/L | 1 | 5 | 6 | 0.0025 | 0.0025 | 0.01 | 0.09 | 0.05 | 0.02 | 0.04 | 0.01 | 0.02 | 0.09 |
| CW14 | mg/L | 0 | 4 | 4 | NA | NA | 0.08 | 0.22 | 0.13 | 0.10 | 0.06 | 0.09 | 0.10 | 0.16 |
| CW2 | mg/L | 37 | 53 | 90 | 0.0005 | 0.005 | 0.003 | 0.09 | 0.02 | 0.01 | 0.01 | 0.005 | 0.007 | 0.01 |
| CW28 | mg/L | 0 | 11 | 11 | NA | NA | 0.02 | 0.09 | 0.05 | 0.05 | 0.03 | 0.03 | 0.05 | 0.08 |
| wcw | mg/L | 22 | 30 | 52 | 0.0025 | 0.005 | 0.007 | 0.02 | 0.01 | 0.01 | 0.0039 | 0.005 | 0.01 | 0.01 |
| pooled | mg/L | 69 | 123 | 192 | 0.0005 | 0.005 | 0.003 | 0.22 | 0.02 | 0.01 | 0.03 | 0.005 | 0.01 | 0.02 |

- † Result value is < 25th percentile 3*IQR or > 75th percentile + 3*IQR
- * Result value is < 25th percentile 1.5*IQR or > 75th percentile + 1.5*IQR
 - -- = no data
 - IQR = interquartile range equals the 3rd quartile (75th percentile) 1st quartile (25th percentile)
 - NA = value not applicable due to frequency of detection
 - ND = nondetect
 - SD = standard deviation
 - Reporting limit is used for nondetects unless otherwise noted.
 - Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
 - Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 13, Systat Software.

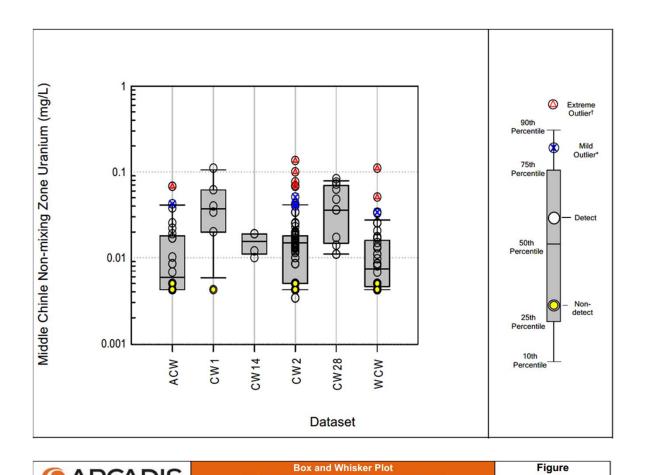


| ARC | AD | IS | | Mi | iddle C | hinle N | lon-mix Reclamati | | ne Sul | fate | | | 730 97 670 29 662 02 550 77 429 53 787 | | | |
|--|--------------------|------------|--|----------------------|---|--|----------------------|--|-----------|----------------------------------|--|----------------------------|---|-------|--|--|
| | 1 | | Sample Siz | ze | ND F | Range | | | Detects | - | | Perc | entiles (All | Data) | | |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th | | |
| ACW | mg/L | 0 | 29 | 29 | NA | NA | 330 | 929 | 686 | 730 | 156 | 654 | 730 | 766 | | |
| CW1 | mg/L | 0 | 6 | 6 | NA | NA | 552 | 1,039 | 739 | 670 | 194 | 597 | 670 | 903 | | |
| CW14 | mg/L | 0 | 4 | 4 | NA | NA | 601 | 754 | 670 | 662 | 63.3 | 629 | 662 | 711 | | |
| CW2 | mg/L | 0 | 90 | 90 | NA | NA | 400 | 1,430 | 592 | 550 | 153 | 502 | 550 | 651 | | |
| CW28 | mg/L | 0 | 11 | 11 | NA | NA | 319 | 482 | 416 | 429 | 50.6 | 377 | 429 | 457 | | |
| wcw | mg/L | 0 | 52 | 52 | NA | NA | 680 | 896 | 785 | 787 | 47.8 | 753 | 787 | 818 | | |
| pooled | mg/L | 0 | 192 | 192 | NA | NA | 319 | 1,430 | 654 | 667 | 162 | 524 | 667 | 772 | | |
| Notes: † Result value is < 2 * Result value is < 2 | SOUTH PARTY OF THE | ntile - 1. | | | | | | | | | | | | | | |
| IQR | | | inge equal | s the 3rd | quartile (| 75th perc | entile) - 1 | st quartile | (25th per | centile) | | | | | | |
| NA | 2004-101 F | | icable due | | South Street, | A CONTRACTOR OF THE PARTY OF TH | | 1000 | | renderated. | | | | | | |
| ND | = nonde | | | | HILD II | | | | | | | | | | | |
| SD | = standa | ard devia | ation | | | | | | | | | | | | | |
| | Reportin | g limit is | s used for | nondetec | ts unless | otherwise | e noted. | | | | | | | | | |
| | | • | | | | | | greater th | an 10 are | reported t | to 3 signif | icant figure | es. | | | |
| | | | THE PROPERTY OF THE PARTY OF TH | CONTRACTOR OF STREET | | THE PERSON NAMED IN COLUMN | | The Indiana Control of the Party of the Part | | ACTUAL DESIGNATION OF THE PERSON | REAL PROPERTY OF THE PARTY OF T | CONTRACTOR OF THE PARTY OF | | | | |



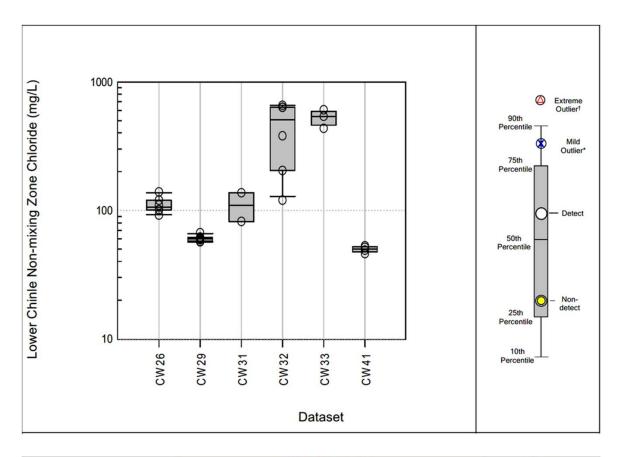
| CW1 | Units mg/L mg/L | NDs 0 | Detects | | | | | | Detects | | | 1 010 | entiles (All | Data |
|---|-------------------------|-----------|------------|-----------|--------------|------------------------|-------------|-------------|-----------|----------|-----|-------|--------------|------|
| ACW CW1 CW14 | | 0 | | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| | mg/L | | 27 | 27 | NA | NA | 560 | 1,570 | 1,305 | 1,420 | 275 | 1,225 | 1,420 | 1,47 |
| CW14 | | 0 | 6 | 6 | NA | NA | 1,240 | 1,780 | 1,431 | 1,323 | 211 | 1,320 | 1,323 | 1,60 |
| | mg/L | 0 | 4 | 4 | NA | NA | 1,306 | 1,636 | 1,436 | 1,401 | 157 | 1,311 | 1,401 | 1,56 |
| CW2 | mg/L | 0 | 89 | 89 | NA | NA | 720 | 1,970 | 1,164 | 1,140 | 195 | 1,072 | 1,140 | 1,24 |
| CW28 | mg/L | 0 | 11 | 11 | NA | NA | 944 | 1,410 | 1,204 | 1,250 | 174 | 1,062 | 1,250 | 1,35 |
| wcw | mg/L | 0 | 50 | 50 | NA | NA | 1,070 | 1,820 | 1,432 | 1,465 | 134 | 1,398 | 1,465 | 1,51 |
| pooled | mg/L | 0 | 187 | 187 | NA | NA | 560 | 1,970 | 1,273 | 1,290 | 226 | 1,112 | 1,290 | 1,45 |
| Notes: † Result value is < 25i * Result value is < 25t | th percenti | ile - 3*I | QR or > 7 | 5th perce | entile + 3 | *IQR | 560 | 1,970 | 1,273 | 1,290 | 226 | 1,112 | 1,290 | |
| | n percenti = no data | ie - 1.5 | IQR OF > | /our per | centile + | 1.5 IQR | | | | | | | | |
| | | rtilo ra | nge equals | the 3rd | quartile / | 75th perc | entile) - 1 | t quartile | (25th per | contile) | | | | |
| | Sand of Grand | | cable due | | a company of | A CONTRACTOR OF STREET | enule) - Is | st quartile | (25th per | certule) | | | | |
| | | 7 % | cable due | to freque | ency of de | election | | | | | | | | |
| | = nondete | | 4: | | | | | | | | | | | |
| SD | = standard | a devia | tion | | | | | | | | | | | |

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures. Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 13, Systat Software



| | | | Sample Siz | | ND F | Range | | | Detects | | | Perc | entiles (All | Data) |
|--|--|--|-------------|-----------|----------------------------|----------------------|--------------|------------|------------|----------|-------------|--------------|--------------|-------|
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| ACW | mg/L | 14 | 14 | 28 | 0.00424 | 0.005 | 0.00678 | 0.07 | 0.03 | 0.02 | 0.02 | 0.0042 | 0.0059 | 0.02 |
| CW1 | mg/L | 1 | 5 | 6 | 0.00424 | 0.00424 | 0.02 | 0.11 | 0.05 | 0.04 | 0.04 | 0.02 | 0.04 | 0.0 |
| CW14 | mg/L | 0 | 4 | 4 | NA | NA | 0.01 | 0.02 | 0.02 | 0.02 | 0.0047 | 0.01 | 0.02 | 0.02 |
| CW2 | mg/L | 20 | 69 | 89 | 0.00424 | 0.005 | 0.00339 | 0.14 | 0.02 | 0.02 | 0.02 | 0.005 | 0.02 | 0.02 |
| CW28 | mg/L | 0 | 11 | 11 | NA | NA | 0.01 | 0.08 | 0.04 | 0.04 | 0.03 | 0.02 | 0.04 | 0.07 |
| wcw | mg/L | 25 | 27 | 52 | 0.00424 | 0.005 | 0.00678 | 0.11 | 0.02 | 0.02 | 0.02 | 0.0046 | 0.0074 | 0.02 |
| pooled | mg/L | 60 | 130 | 190 | 0.00424 | 0.005 | 0.00339 | 0.14 | 0.03 | 0.02 | 0.02 | 0.005 | 0.01 | 0.02 |
| † Result value is < 2 * Result value is < 2! IQR NA | 5th percen = no dat = interqu = value r | ntile - 1.5 a uartile ra not appl | 5*IQR or > | 75th pe | rcentile + d quartile (| 1.5*IQR 75th perc | entile) - 1s | t quartile | (25th per | centile) | | | | |
| ND | = nonde | | | | | | | | | | | | | |
| SD | = standa | | | | | | | | | | | | | |
| | | • | s used for | | | | | | | | | | | |
| | Values le | ess than | 10 are re | ported to | 2 signific | ant figure | s. Values o | reater th | nan 10 are | reported | to 3 signif | icant figure | es. | |
| | Percenti | 100 000 | and and and | 41- | - 01 | | | | DI | | | 40 0 | 0 0 | |

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Lower'7\]b`Y'Bcb!A]I]b['NcbY



| ARC | IS | | Lo | wer Cl | | | Figure 6.1 | | | | | | | |
|---------|-------|-----|------------|--------|------|-------|---------------|------|---------|--------|------|------|--------------|-------|
| T | 7 | | Sample Siz | e | ND F | Range | | | Detects | | | Perd | entiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| CW26 | mg/L | 0 | 6 | 6 | NA | NA | 92.0 | 139 | 111 | 106 | 16.9 | 101 | 106 | 120 |
| CW29 | mg/L | 0 | 7 | 7 | NA | NA | 56.8 | 67.0 | 60.4 | 60.0 | 3.4 | 57.7 | 60.0 | 61.8 |
| CW31 | mg/L | 0 | 2 | 2 | NA | NA | 82.0 | 137 | 110 | 110 | 38.9 | 82.0 | 110 | 137 |
| CW32 | mg/L | 0 | 6 | 6 | NA | NA | 120 | 657 | 438 | 507 | 238 | 204 | 507 | 634 |
| CW33 | mg/L | 0 | 3 | 3 | NA | NA | 435 | 606 | 527 | 539 | 86.2 | 461 | 539 | 589 |
| CW41 | mg/L | 0 | 4 | 4 | NA | NA | 46.0 | 53.0 | 49.9 | 50.2 | 3.0 | 47.5 | 50.2 | 52.2 |
| pooled | mg/L | 0 | 28 | 28 | NA | NA | 46.0 | 657 | 204 | 101 | 215 | 59.5 | 101 | 292 |
| CW31 | mg/L | 0 | 2 | 2 | NA | NA | 82.0 | 137 | 110 | 110 | 38.9 | 82.0 | 110 | 137 |
| CW32 | mg/L | 0 | 6 | 6 | NA | NA | 120 | 657 | 438 | 507 | 238 | 204 | 507 | 634 |
| CW33 | mg/L | 0 | 3 | 3 | NA | NA | 435 | 606 | 527 | 539 | 86.2 | 461 | 539 | 589 |
| CW41 | mg/L | 0 | 4 | 4 | NA | NA | 46.0 | 53.0 | 49.9 | 50.2 | 3.0 | 47.5 | 50.2 | 52.2 |
| pooled | mg/L | 0 | 28 | 28 | NA | NA | 46.0 | 657 | 204 | 101 | 215 | 59.5 | 101 | 292 |

- † Result value is < 25th percentile 3*IQR or > 75th percentile + 3*IQR
- * Result value is < 25th percentile 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

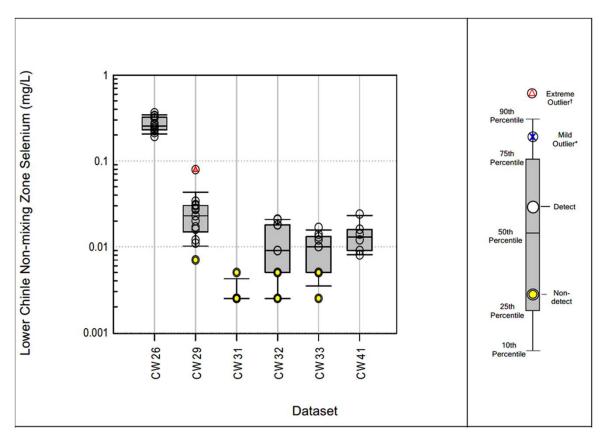
NA = value not applicable due to frequency of detection

ND = nondetect

SD = standard deviation

Reporting limit is used for nondetects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.



| ARC | | Lo | wer Ch | | 9 | Figure 6.2 | | | | | | | | |
|---------|-------|-----|------------|-------|--------|---------------|-------|------|---------|--------|--------|--------|--------------|--------|
| | | , | Sample Siz | ze . | ND R | ange | | | Detects | | | Perc | entiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| CW26 | mg/L | 0 | 12 | 12 | NA | NA | 0.19 | 0.36 | 0.27 | 0.25 | 0.06 | 0.23 | 0.25 | 0.32 |
| CW29 | mg/L | 1 | 12 | 13 | 0.007 | 0.007 | 0.01 | 0.08 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.03 |
| CW31 | mg/L | 8 | 0 | 8 | 0.0025 | 0.005 | ND | ND | ND | ND | ND | 0.0025 | 0.0025 | 0.0025 |
| CW32 | mg/L | 4 | 7 | 11 | 0.0025 | 0.005 | 0.009 | 0.02 | 0.02 | 0.02 | 0.0051 | 0.005 | 0.009 | 0.02 |
| CW33 | mg/L | 3 | 6 | 9 | 0.0025 | 0.005 | 0.01 | 0.02 | 0.01 | 0.01 | 0.0026 | 0.005 | 0.01 | 0.01 |
| CW41 | mg/L | 0 | 6 | 6 | NA | NA | 0.008 | 0.02 | 0.01 | 0.01 | 0.0058 | 0.009 | 0.01 | 0.02 |
| pooled | mg/L | 16 | 43 | 59 | 0.0025 | 0.007 | 0.008 | 0.36 | 0.09 | 0.02 | 0.12 | 0.0055 | 0.02 | 0.03 |
| CW31 | mg/L | 8 | 0 | 8 | 0.0025 | 0.005 | ND | ND | ND | ND | ND | 0.0025 | 0.0025 | 0.0025 |
| CW32 | mg/L | 4 | 7 | 11 | 0.0025 | 0.005 | 0.009 | 0.02 | 0.02 | 0.02 | 0.0051 | 0.005 | 0.009 | 0.02 |
| CW33 | mg/L | 3 | 6 | 9 | 0.0025 | 0.005 | 0.01 | 0.02 | 0.01 | 0.01 | 0.0026 | 0.005 | 0.01 | 0.01 |
| CW41 | mg/L | 0 | 6 | 6 | NA | NA | 0.008 | 0.02 | 0.01 | 0.01 | 0.0058 | 0.009 | 0.01 | 0.02 |
| pooled | mg/L | 16 | 43 | 59 | 0.0025 | 0.007 | 0.008 | 0.36 | 0.09 | 0.02 | 0.12 | 0.0055 | 0.02 | 0.03 |

* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

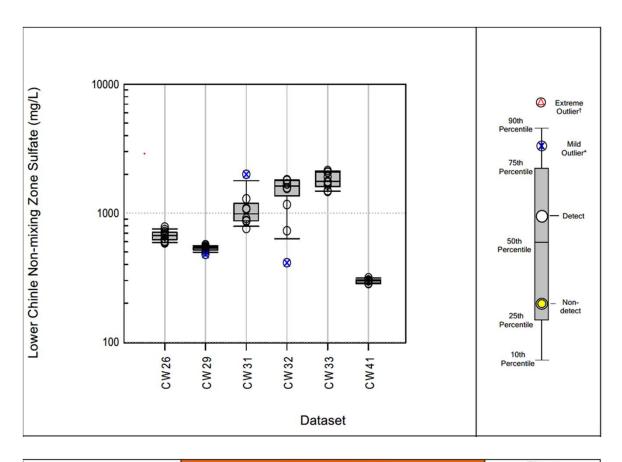
NA = value not applicable due to frequency of detection

ND = nondetect

SD = standard deviation

Reporting limit is used for nondetects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

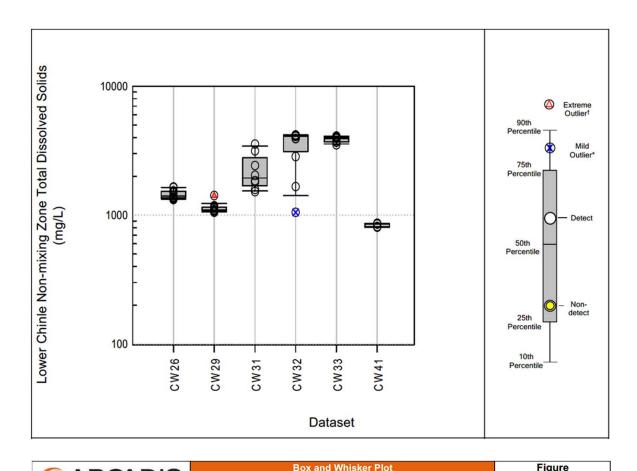


| ARC | AD | IS | | Lo | ower C | hinle N | nd Whis Ion-mix Reclamatio | ing Zo | | ate | | | | |
|---------|-------|-----|------------|-------|--------|---------|----------------------------------|--------|---------|--------|------|-------|--------------|-------|
| | | 5 | Sample Siz | te | ND F | Range | | | Detects | | | Perc | entiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| CW26 | mg/L | 0 | 12 | 12 | NA | NA | 587 | 780 | 670 | 672 | 60.7 | 621 | 672 | 710 |
| CW29 | mg/L | 0 | 13 | 13 | NA | NA | 479 | 568 | 531 | 535 | 23.0 | 519 | 535 | 544 |
| CW31 | mg/L | 0 | 8 | 8 | NA | NA | 759 | 1,999 | 1,107 | 989 | 397 | 872 | 989 | 1,190 |
| CW32 | mg/L | 0 | 12 | 12 | NA | NA | 412 | 1,814 | 1,464 | 1,625 | 459 | 1,357 | 1,625 | 1,795 |
| CW33 | mg/L | 0 | 9 | 9 | NA | NA | 1,470 | 2,140 | 1,811 | 1,760 | 253 | 1,610 | 1,760 | 2,073 |
| CW41 | mg/L | 0 | 6 | 6 | NA | NA | 284 | 314 | 298 | 299 | 11.0 | 287 | 299 | 303 |
| pooled | mg/L | 0 | 60 | 60 | NA | NA | 284 | 2,140 | 991 | 725 | 578 | 537 | 725 | 1,570 |
| CW31 | mg/L | 0 | 8 | 8 | NA | NA | 759 | 1,999 | 1,107 | 989 | 397 | 872 | 989 | 1,190 |
| CW32 | mg/L | 0 | 12 | 12 | NA | NA | 412 | 1,814 | 1,464 | 1,625 | 459 | 1,357 | 1,625 | 1,795 |
| CW33 | mg/L | 0 | 9 | 9 | NA | NA | 1,470 | 2,140 | 1,811 | 1,760 | 253 | 1,610 | 1,760 | 2,073 |
| CW41 | mg/L | 0 | 6 | 6 | NA | NA | 284 | 314 | 298 | 299 | 11.0 | 287 | 299 | 303 |
| pooled | mg/L | 0 | 60 | 60 | NA | NA | 284 | 2,140 | 991 | 725 | 578 | 537 | 725 | 1,570 |

- † Result value is < 25th percentile 3*IQR or > 75th percentile + 3*IQR
- * Result value is < 25th percentile 1.5*IQR or > 75th percentile + 1.5*IQR
 - -- = no data
 - IQR = interquartile range equals the 3rd quartile (75th percentile) 1st quartile (25th percentile)
 - NA = value not applicable due to frequency of detection
 - ND = nondetect
 - SD = standard deviation

Reporting limit is used for nondetects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.



| ARC | AD | Lov | ver Ch | inle No | n-mix | | | | lved So | lids | | 6.4 | | |
|---------|-------|-----|------------|---------|-------|-------|-------|-------|---------|--------|-------|-------|--------------|-------|
| | | | Sample Siz | e | ND F | Range | | | Detects | ٤ | | Perc | entiles (All | Data) |
| Dataset | Units | NDs | Detects | Total | Min | Max | Min | Max | Mean | Median | SD | 25th | 50th | 75th |
| CW26 | mg/L | 0 | 11 | 11 | NA | NA | 1,317 | 1,650 | 1,456 | 1,410 | 117 | 1,362 | 1,410 | 1,533 |
| CW29 | mg/L | 0 | 13 | 13 | NA | NA | 1,050 | 1,417 | 1,133 | 1,100 | 94.4 | 1,080 | 1,100 | 1,151 |
| CW31 | mg/L | 0 | 8 | 8 | NA | NA | 1,520 | 3,551 | 2,236 | 1,940 | 747 | 1,690 | 1,940 | 2,780 |
| CW32 | mg/L | 0 | 11 | 11 | NA | NA | 1,050 | 4,180 | 3,473 | 4,070 | 1,122 | 3,109 | 4,070 | 4,148 |
| CW33 | mg/L | 0 | 9 | 9 | NA | NA | 3,500 | 4,100 | 3,853 | 3,920 | 204 | 3,687 | 3,920 | 4,007 |
| CW41 | mg/L | 0 | 6 | 6 | NA | NA | 805 | 864 | 826 | 814 | 24.9 | 810 | 814 | 851 |
| pooled | mg/L | 0 | 58 | 58 | NA | NA | 805 | 4,180 | 2,181 | 1,530 | 1,269 | 1,130 | 1,530 | 3,692 |
| CW31 | mg/L | 0 | 8 | 8 | NA | NA | 1,520 | 3,551 | 2,236 | 1,940 | 747 | 1,690 | 1,940 | 2,780 |
| CW32 | mg/L | 0 | 11 | 11 | NA | NA | 1,050 | 4,180 | 3,473 | 4,070 | 1,122 | 3,109 | 4,070 | 4,148 |
| CW33 | mg/L | 0 | 9 | 9 | NA | NA | 3,500 | 4,100 | 3,853 | 3,920 | 204 | 3,687 | 3,920 | 4,007 |
| CW41 | mg/L | 0 | 6 | 6 | NA | NA | 805 | 864 | 826 | 814 | 24.9 | 810 | 814 | 851 |
| pooled | mg/L | 0 | 58 | 58 | NA | NA | 805 | 4,180 | 2,181 | 1,530 | 1,269 | 1,130 | 1,530 | 3,692 |

- † Result value is < 25th percentile 3*IQR or > 75th percentile + 3*IQR
- * Result value is < 25th percentile 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

NA = value not applicable due to frequency of detection

ND = nondetect

SD = standard deviation

Reporting limit is used for nondetects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

5 HH5 7 < A 9 BH'7''' Statistical Calculations

Background Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation ProUCL 5.18/19/2016 8:54:37 AM

From File data for proucl_a.xls

Full Precision OFF

Confidence Coefficient 95%

Coverage 95%

Different or Future K Observations 1

Number of Bootstrap Operations 2000

Result (alluvial nitrate)

General Statistics

| Total Number of Observations | 87 | Number of Distinct Observations | 75 |
|------------------------------|-------|---------------------------------|--------|
| Minimum | 0.44 | First Quartile | 4.99 |
| Second Largest | 15.5 | Median | 9.25 |
| Maximum | 16.4 | Third Quartile | 11.35 |
| Mean | 8.403 | SD | 3.965 |
| Coefficient of Variation | 0.472 | Skewness | -0.364 |
| Mean of logged Data | 1.933 | SD of logged Data | 0.758 |
| | | | |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.946 d2max (for USL) 3.161

Normal GOF Test

| Normal GOF Test | 0.942 | Shapiro Wilk Test Statistic |
|--|---------|------------------------------|
| Data Not Normal at 5% Significance Level | 0.00118 | 5% Shapiro Wilk P Value |
| Lilliefors GOF Test | 0.103 | Lilliefors Test Statistic |
| Data Not Normal at 5% Significance Level | 0.0951 | 5% Lilliefors Critical Value |

Data Not Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

| 95% UTL with 95% Coverage | 16.12 | 90% Percentile (z) | 13.48 |
|---------------------------|-------|--------------------|-------|
| 95% UPL (t) | 15.03 | 95% Percentile (z) | 14.93 |
| 95% USL | 20.94 | 99% Percentile (z) | 17.63 |

Gamma GOF Test

| Anderson-Darling Gamma GOF Test | 3.921 | A-D Test Statistic |
|---|--------|-----------------------|
| Data Not Gamma Distributed at 5% Significance Level | 0.761 | 5% A-D Critical Value |
| Kolmogorov-Smirnov Gamma GOF Test | 0.182 | K-S Test Statistic |
| Data Not Gamma Distributed at 5% Significance Level | 0.0967 | 5% K-S Critical Value |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

| 2.627 | k star (bias corrected MLE) | 2.713 | k hat (MLE) |
|-------|---------------------------------|-------|---------------------------|
| 3.198 | Theta star (bias corrected MLE) | | Theta hat (MLE) |
| 457.1 | nu star (bias corrected) | 472.1 | nu hat (MLE) |
| 5.184 | MLE Sd (bias corrected) | 8.403 | MLE Mean (bias corrected) |

Background Statistics Assuming Gamma Distribution

95% Wilson Hilferty (WH) Approx. Gamma UPL 18.44 90% Percentile 15.35

Attachment 7: Statistical Calculations

| 95% Hawkins Wixley (HW) Approx. Gamma UPL | 19.4 | 95% Percentile | 18.33 |
|--|-------|----------------|-------|
| 95% WH Approx. Gamma UTL with 95% Coverage | 20.88 | 99% Percentile | 24.84 |
| 95% HW Approx. Gamma UTL with 95% Coverage | 22.28 | | |
| 95% WH USL | 34.35 | 95% HW USL | 39.09 |

Lognormal GOF Test

| Shapiro Wilk Test Statistic 0.804 | Shapiro Wilk Lognormal GOF Test |
|-------------------------------------|---|
| 5% Shapiro Wilk P Value 1.110E-16 | Data Not Lognormal at 5% Significance Level |
| Lilliefors Test Statistic 0.209 | Lilliefors Lognormal GOF Test |
| 5% Lilliefors Critical Value 0.0951 | Data Not Lognormal at 5% Significance Level |

Data Not Lognormal at 5% Significance Level

Background Statistics assuming Lognormal Distribution

| 95% UTL with 95% Coverage | 30.2 | 90% Percentile (z) | 18.25 |
|---------------------------|-------|--------------------|-------|
| 95% UPL (t) | 24.54 | 95% Percentile (z) | 24.04 |
| 95% USL | 75.88 | 99% Percentile (z) | 40.29 |

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for Background Threshold Values

| Order of Statistic, r | 85 | 95% UTL with 95% Coverage | <mark>15</mark> |
|--|-------|---|-----------------|
| Approx, f used to compute achieved CC | 1.491 | Approximate Actual Confidence Coefficient achieved by UTL | 0.816 |
| | | Approximate Sample Size needed to achieve specified CC | 124 |
| 95% Percentile Bootstrap UTL with 95% Coverage | 15 | 95% BCA Bootstrap UTL with 95% Coverage | 15 |
| 95% UPL | 14.26 | 90% Percentile | 12.8 |
| 90% Chebyshev UPL | 20.37 | 95% Percentile | 13.57 |
| 95% Chebyshev UPL | 25.79 | 99% Percentile | 15.63 |
| 95% USL | 16.4 | | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (alluvial selenium)

General Statistics

| Total Number of Observations | 124 | Number of Distinct Observations | 101 |
|------------------------------|-----------|---------------------------------|-------|
| Minimum | 0.01 | First Quartile | 0.088 |
| Second Largest | 0.505 | Median | 0.194 |
| Maximum | 0.579 | Third Quartile | 0.237 |
| Mean | 0.18 | SD | 0.106 |
| Coefficient of Variation | 0.592 | Skewness | 0.74 |
| Mean of logged Data | -1.964 | SD of logged Data | 0.813 |
| | | | |
| Critical Values fo | r Backgro | und Threshold Values (BTVs) | |

d2max (for USL)

3.281

Normal GOF Test

1.892

Tolerance Factor K (For UTL)

| Normal GOF Test | 0.927 | Shapiro Wilk Test Statistic | |
|---|---------|------------------------------|--|
| Data Not Normal at 5% Significance Leve | 3175E-7 | 5% Shapiro Wilk P Value 2 | |
| Lilliefors GOF Test | 0.0974 | Lilliefors Test Statistic | |
| Data Not Normal at 5% Significance Leve | 0.0799 | 5% Lilliefors Critical Value | |

Data Not Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

| 95% UTL with 95% Coverage | 0.381 | 90% Percentile (z) | 0.316 |
|---------------------------|-------|--------------------|-------|
| 95% UPL (t) | 0.357 | 95% Percentile (z) | 0.355 |
| 95% USL | 0.529 | 99% Percentile (z) | 0.427 |

Gamma GOF Test

| A-D Test Statistic | 3.779 | Anderson-Darling Gamma GOF Test |
|-----------------------|--------|---|
| 5% A-D Critical Value | 0.764 | Data Not Gamma Distributed at 5% Significance Level |
| K-S Test Statistic | 0.154 | Kolmogorov-Smirnov Gamma GOF Test |
| 5% K-S Critical Value | 0.0843 | Data Not Gamma Distributed at 5% Significance Level |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

| k hat (MLE) | 2.175 | k star (bias corrected MLE) | 2.127 |
|---------------------------|--------|---------------------------------|-------|
| Theta hat (MLE) | 0.0826 | Theta star (bias corrected MLE) | |
| nu hat (MLE) | 539.3 | nu star (bias corrected) | 527.6 |
| MLE Mean (bias corrected) | 0.18 | MLE Sd (bias corrected) | 0.123 |

Background Statistics Assuming Gamma Distribution

| 95% Wilson Hilferty (WH) Approx. Gamma UPL | 0.42 | 90% Percentile | 0.345 |
|--|-------|----------------|-------|
| 95% Hawkins Wixley (HW) Approx. Gamma UPL | 0.439 | 95% Percentile | 0.418 |
| 95% WH Approx. Gamma UTL with 95% Coverage | 0.47 | 99% Percentile | 0.581 |
| 95% HW Approx. Gamma UTL with 95% Coverage | 0.498 | | |
| 95% WH USL | 0.869 | 95% HW USL | 0.995 |

Lognormal GOF Test

| Statistic 0.879 | Shapiro Wilk Lognormal GOF Test |
|-------------------|---|
| P Value 2.887E-15 | Data Not Lognormal at 5% Significance Level |
| Statistic 0.194 | Lilliefors Lognormal GOF Test |
| al Value 0.0799 | Data Not Lognormal at 5% Significance Level |

Data Not Lognormal at 5% Significance Level

Background Statistics assuming Lognormal Distribution

| 95% UTL with 95% Coverage | 0.653 | 90% Percentile (z) | 0.398 |
|---------------------------|-------|--------------------|-------|
| 95% UPL (t) | 0.543 | 95% Percentile (z) | 0.534 |
| 95% USL | 2.021 | 99% Percentile (z) | 0.93 |

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for Background Threshold Values

| 0.429 | 95% UTL with 95% Coverage | 121 | Order of Statistic, r |
|-------|---|-------|--|
| 0.872 | Approximate Actual Confidence Coefficient achieved by UTL | 1.592 | Approx, f used to compute achieved CC |
| 153 | Approximate Sample Size needed to achieve specified CC | | |
| 0.425 | 95% BCA Bootstrap UTL with 95% Coverage | 0.429 | 95% Percentile Bootstrap UTL with 95% Coverage |

| 95% UPL | 0.378 | 90% Percentile | 0.286 |
|-------------------|-------|----------------|-------|
| 90% Chebyshev UPL | 0.5 | 95% Percentile | 0.322 |
| 95% Chebyshev UPL | 0.646 | 99% Percentile | 0.504 |
| 95% USL | 0.579 | | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.

Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (alluvial sulfate)

General Statistics

| Total Number of Observations | 124 | Number of Distinct Observations | 93 |
|------------------------------|-------|---------------------------------|--------|
| Minimum | 335 | First Quartile | 933.3 |
| Second Largest | 1710 | Median | 1100 |
| Maximum | 1790 | Third Quartile | 1168 |
| Mean | 1075 | SD | 255.5 |
| Coefficient of Variation | 0.238 | Skewness | -0.231 |
| Mean of logged Data | 6.945 | SD of logged Data | 0.286 |
| | | | |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.892 d2max (for USL) 3.281

Normal GOF Test

| Shapiro Wilk Test Statistic 0.938 | Normal GOF Test |
|-------------------------------------|--|
| 5% Shapiro Wilk P Value 1.2464E-5 | Data Not Normal at 5% Significance Level |
| Lilliefors Test Statistic 0.115 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value 0.0799 | Data Not Normal at 5% Significance Level |

Data Not Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

| 95% UTL with 95% Coverage | 1558 | 90% Percentile (z) | 1402 |
|---------------------------|------|--------------------|------|
| 95% UPL (t) | 1500 | 95% Percentile (z) | 1495 |
| 95% USI | 1913 | 99% Percentile (z) | 1669 |

Gamma GOF Test

| Anderson-Darling Gamma GOF Test | 4.142 | A-D Test Statistic |
|--|---|-----------------------|
| Data Not Gamma Distributed at 5% Significance Leve | ue 0.751 Data Not Gamma Distributed at 5% Signi | |
| Kolmogorov-Smirnov Gamma GOF Test | 0.127 | K-S Test Statistic |
| Data Not Gamma Distributed at 5% Significance Leve | 0.0831 | 5% K-S Critical Value |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

| 14.17 | k star (bias corrected MLE) | 14.52 | k hat (MLE) | |
|-------|---------------------------------|-------|---------------------------|--|
| 75.83 | Theta star (bias corrected MLE) | 74.02 | Theta hat (MLE) | |
| 3515 | nu star (bias corrected) | 3601 | nu hat (MLE) | |
| 285.5 | MLE Sd (bias corrected) | 1075 | MLE Mean (bias corrected) | |

Background Statistics Assuming Gamma Distribution

Attachment 7: Statistical Calculations

| 95% Wilson Hilferty (WH) Approx. Gamma UPL | 1585 | 90% Percentile | 1453 |
|--|------|----------------|------|
| 95% Hawkins Wixley (HW) Approx. Gamma UPL | 1603 | 95% Percentile | 1583 |
| 95% WH Approx. Gamma UTL with 95% Coverage | 1670 | 99% Percentile | 1848 |
| 95% HW Approx. Gamma UTL with 95% Coverage | 1693 | | |
| 95% WH USL | 2253 | 95% HW USL | 2329 |

Lognormal GOF Test

| Shapiro Wilk Test Statistic | 0.825 | Shapiro Wilk Lognormal GOF Test |
|------------------------------|--------|---|
| 5% Shapiro Wilk P Value | 0 | Data Not Lognormal at 5% Significance Level |
| Lilliefors Test Statistic | 0.149 | Lilliefors Lognormal GOF Test |
| 5% Lilliefors Critical Value | 0.0799 | Data Not Lognormal at 5% Significance Level |

Data Not Lognormal at 5% Significance Level

Background Statistics assuming Lognormal Distribution

| 95% UTL with 95% Coverage | 1784 | 90% Percentile (z) | 1498 |
|---------------------------|------|--------------------|------|
| 95% UPL (t) | 1671 | 95% Percentile (z) | 1662 |
| 95% USL | 2656 | 99% Percentile (z) | 2021 |

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for Background Threshold Values

| Order of Statistic, r | 121 | 95% UTL with 95% Coverage | 1683 |
|--|-------|---|-------|
| Approx, f used to compute achieved CC | 1.592 | Approximate Actual Confidence Coefficient achieved by UTL | 0.872 |
| | | Approximate Sample Size needed to achieve specified CC | 153 |
| 95% Percentile Bootstrap UTL with 95% Coverage | 1683 | 95% BCA Bootstrap UTL with 95% Coverage | 1656 |
| 95% UPL | 1530 | 90% Percentile | 1347 |
| 90% Chebyshev UPL | 1844 | 95% Percentile | 1500 |
| 95% Chebyshev UPL | 2193 | 99% Percentile | 1704 |
| 95% USL | 1790 | | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.

Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (alluvial total dissolved solids)

General Statistics

| Total Number of Observations | 124 | Number of Distinct Observations | 89 |
|------------------------------|------------------------------|---------------------------------|-------|
| Minimum | 954 | First Quartile | 1798 |
| Second Largest | 3050 | Median | 2050 |
| Maximum | 3054 | Third Quartile | 2115 |
| Mean | 1995 | SD | 380.5 |
| Coefficient of Variation | 0.191 | Skewness | 0.219 |
| Mean of logged Data | 7.579 | SD of logged Data | 0.202 |
| Critical Values fo | r Background Threshold Value | s (BTVs) | |
| Tolerance Factor K (For UTL) | 1.892 | d2max (for USL) | 3.281 |

| | | | _ | |
|---|-----|-----|----------|------|
| N | arm | പ വ | \cap E | Test |
| | | | | |

| Shapiro Wilk Test Statistic 0.92 | Normal GOF Test |
|----------------------------------|-----------------|
|----------------------------------|-----------------|

5% Shapiro Wilk P Value 2.6145E-8 Data Not Normal at 5% Significance Level

Lilliefors Test Statistic 0.148 Lilliefors GOF Test

5% Lilliefors Critical Value 0.0799 Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

95% UTL with 95% Coverage 2715 90% Percentile (z) 2482 95% UPL (t) 2628 95% USL 3243 95% Percentile (z) 2880

Gamma GOF Test

A-D Test Statistic 3.849 Anderson-Darling Gamma GOF Test

5% A-D Critical Value 0.75 Data Not Gamma Distributed at 5% Significance Level

K-S Test Statistic 0.138 Kolmogorov-Smirnov Gamma GOF Test

5% K-S Critical Value 0.0831 Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE) 26.25 k star (bias corrected MLE) 25.62
Theta hat (MLE) 75.99 Theta star (bias corrected MLE) 77.86
nu hat (MLE) 6510 nu star (bias corrected) 6354
MLE Mean (bias corrected) 1995 MLE Sd (bias corrected) 394.1

Background Statistics Assuming Gamma Distribution

 95% Wilson Hilferty (WH) Approx. Gamma UPL
 2687
 90% Percentile
 2513

 95% Hawkins Wixley (HW) Approx. Gamma UPL
 2698
 95% Percentile
 2684

 95% WH Approx. Gamma UTL with
 95% Coverage
 2797
 99% Percentile
 3024

 95% HW Approx. Gamma UTL with
 95% Coverage
 2812

95% WH USL 3534 95% HW USL 3588

Lognormal GOF Test

Shapiro Wilk Test Statistic 0.901 Shapiro Wilk Lognormal GOF Test

5% Shapiro Wilk P Value 1.704E-11 Data Not Lognormal at 5% Significance Level

Lilliefors Test Statistic 0.137 Lilliefors Lognormal GOF Test

5% Lilliefors Critical Value 0.0799 Data Not Lognormal at 5% Significance Level

Data Not Lognormal at 5% Significance Level

Background Statistics assuming Lognormal Distribution

95% UTL with 95% Coverage 2866 90% Percentile (z) 2534 95% UPL (t) 2737 95% USL 3793 95% Percentile (z) 3129

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for Background Threshold Values

Order of Statistic, r 121 95% UTL with 95% Coverage 2950

Approx, f used to compute achieved CC 1.592 Approximate Actual Confidence Coefficient achieved by UTL 0.872

Approximate Sample Size needed to achieve specified CC 153

Attachment 7: Statistical Calculations

| 95% Percentile Bootstrap UTL with 95% Coverage | 2950 | 95% BCA Bootstrap UTL with | 95% Coverage | 2947 |
|--|------|----------------------------|----------------|------|
| 95% UPL | 2838 | | 90% Percentile | 2298 |
| 90% Chebyshev UPL | 3141 | | 95% Percentile | 2736 |
| 95% Chebyshev UPL | 3660 | | 99% Percentile | 3041 |
| 95% USL | 3054 | | | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (alluvial uranium)

General Statistics

| Total Number of Observations | 124 | Number of Distinct Observations | 98 |
|------------------------------|--------|---------------------------------|--------|
| Minimum | 0.0035 | First Quartile | 0.0279 |
| Second Largest | 0.178 | Median | 0.035 |
| Maximum | 0.188 | Third Quartile | 0.0498 |
| Mean | 0.0466 | SD | 0.0385 |
| Coefficient of Variation | 0.826 | Skewness | 2.563 |
| Mean of logged Data | -3.273 | SD of logged Data | 0.605 |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.892 d2max (for USL) 3.281

Normal GOF Test

| Shapiro Wilk Test Statistic | 0.623 | Normal GOF Test |
|------------------------------|--------|--|
| 5% Shapiro Wilk P Value | 0 | Data Not Normal at 5% Significance Level |
| Lilliefors Test Statistic | 0.278 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value | 0.0799 | Data Not Normal at 5% Significance Level |

Data Not Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

| 95% UTL with 95% Coverage | 0.12 | 90% Percentile (z) | 0.096 |
|---------------------------|-------|--------------------|-------|
| 95% UPL (t) | 0.111 | 95% Percentile (z) | 0.11 |
| 95% USL | 0.173 | 99% Percentile (z) | 0.136 |

Gamma GOF Test

| Anderson-Darling Gamma GOF Test | 7.377 | A-D Test Statistic |
|---|--------|-----------------------|
| Data Not Gamma Distributed at 5% Significance Level | 0.762 | 5% A-D Critical Value |
| Kolmogorov-Smirnov Gamma GOF Test | 0.179 | K-S Test Statistic |
| Data Not Gamma Distributed at 5% Significance Level | 0.0841 | 5% K-S Critical Value |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

| 2.503 | k star (bias corrected MLE) | 2.559 | k hat (MLE) |
|--------|---------------------------------|--------|---------------------------|
| 0.0186 | Theta star (bias corrected MLE) | 0.0182 | Theta hat (MLE) |
| 620.6 | nu star (bias corrected) | 634.7 | nu hat (MLE) |
| 0.0295 | MLE Sd (bias corrected) | 0.0466 | MLE Mean (bias corrected) |

Background Statistics Assuming Gamma Distribution

| 95% Wilson Hilferty (WH) Approx. Gamma UPL | 0.102 | 90% Percentile | 0.0861 |
|--|-------|----------------|--------|
| 95% Hawkins Wixley (HW) Approx. Gamma UPL | 0.102 | 95% Percentile | 0.103 |
| 95% WH Approx. Gamma UTL with 95% Coverage | 0.114 | 99% Percentile | 0.141 |
| 95% HW Approx. Gamma UTL with 95% Coverage | 0.114 | | |
| 95% WH USL | 0.203 | 95% HW USL | 0.214 |

Lognormal GOF Test

| Shapiro Wilk Test Statistic 0.907 | Shapiro Wilk Lognormal GOF Test |
|-------------------------------------|---|
| 5% Shapiro Wilk P Value 1.878E-10 | Data Not Lognormal at 5% Significance Level |
| Lilliefors Test Statistic 0.134 | Lilliefors Lognormal GOF Test |
| 5% Lilliefors Critical Value 0.0799 | Data Not Lognormal at 5% Significance Level |

Data Not Lognormal at 5% Significance Level

Background Statistics assuming Lognormal Distribution

| 95% UTL with 95% Coverage | 0.119 | 90% Percentile (z) | 0.0823 |
|---------------------------|-------|--------------------|--------|
| 95% UPL (t) | 0.104 | 95% Percentile (z) | 0.103 |
| 95% USL | 0.276 | 99% Percentile (z) | 0.155 |

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for Background Threshold Values

| Order of Statistic, r | 121 | 95% UTL with 95% Coverage | 0.174 |
|--|-------|---|--------|
| Approx, f used to compute achieved CC | 1.592 | Approximate Actual Confidence Coefficient achieved by UTL | 0.872 |
| | | Approximate Sample Size needed to achieve specified CC | 153 |
| 95% Percentile Bootstrap UTL with 95% Coverage | 0.174 | 95% BCA Bootstrap UTL with 95% Coverage | 0.173 |
| 95% UPL | 0.165 | 90% Percentile | 0.0647 |
| 90% Chebyshev UPL | 0.163 | 95% Percentile | 0.163 |
| 95% Chebyshev UPL | 0.215 | 99% Percentile | 0.177 |
| 95% USL | 0.188 | | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (chinle mixing zone molybdenum)

General Statistics

| 0 | Number of Missing Observations | 67 | Total Number of Observations |
|--------|--------------------------------|--------|---------------------------------|
| | | 13 | Number of Distinct Observations |
| 44 | Number of Non-Detects | 23 | Number of Detects |
| 5 | Number of Distinct Non-Detects | 11 | Number of Distinct Detects |
| 0.01 | Minimum Non-Detect | 0.01 | Minimum Detect |
| 0.05 | Maximum Non-Detect | 0.13 | Maximum Detect |
| 65.67% | Percent Non-Detects | 0.0014 | Variance Detected |
| 0.0374 | SD Detected | 0.0591 | Mean Detected |
| 0.872 | SD of Detected Logged Data | -3.116 | Mean of Detected Logged Data |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.994 d2max (for USL) 3.068

Normal GOF Test on Detects Only

| Shapiro Wilk Test Statistic | 0.928 | Shapiro Wilk GOF Test |
|--------------------------------|-------|--|
| 5% Shapiro Wilk Critical Value | 0.914 | Detected Data appear Normal at 5% Significance Level |
| Lilliefors Test Statistic | 0.13 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value | 0.18 | Detected Data appear Normal at 5% Significance Level |

Detected Data appear Normal at 5% Significance Level

Kaplan Meier (KM) Background Statistics Assuming Normal Distribution

| KM Mean | 0.0283 | KM SD | 0.0311 |
|-----------------------|--------|-----------------------|--------|
| 95% UTL95% Coverage | 0.0903 | 95% KM UPL (t) | 0.0806 |
| 90% KM Percentile (z) | 0.0682 | 95% KM Percentile (z) | 0.0795 |
| 99% KM Percentile (z) | 0.101 | 95% KM USL | 0.124 |

DL/2 Substitution Background Statistics Assuming Normal Distribution

| Mean | 0.0298 | SD | 0.0305 |
|---------------------|--------|--------------------|--------|
| 95% UTL95% Coverage | 0.0906 | 95% UPL (t) | 0.081 |
| 90% Percentile (z) | 0.0689 | 95% Percentile (z) | 0.08 |
| 99% Percentile (z) | 0.101 | 95% USL | 0.123 |

DL/2 is not a recommended method. DL/2 provided for comparisons and historical reasons

Gamma GOF Tests on Detected Observations Only

| A-D Test Statistic | 0.848 | Anderson-Darling GOF Test |
|-----------------------|-------|---|
| 5% A-D Critical Value | 0.756 | Data Not Gamma Distributed at 5% Significance Level |
| K-S Test Statistic | 0.17 | Kolmogorov-Smirnov GOF |
| 5% K-S Critical Value | 0.184 | Detected data appear Gamma Distributed at 5% Significance Level |

Detected data follow Appr. Gamma Distribution at 5% Significance Level

Gamma Statistics on Detected Data Only

| 1.67 | k star (bias corrected MLE) | 1.887 | k hat (MLE) |
|--------|--------------------------------------|--------|---------------------------|
| 0.0354 | Theta star (bias corrected MLE) | 0.0313 | Theta hat (MLE) |
| 76.81 | nu star (bias corrected) | 86.8 | nu hat (MLE) |
| | | 0.0591 | MLE Mean (bias corrected) |
| 8.396 | 95% Percentile of Chisquare (2kstar) | 0.0458 | MLF Sd (bias corrected) |

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

| 0.01 | Mean | 0.0299 |
|--------|---|---|
| 0.13 | Median | 0.0119 |
| 0.031 | CV | 1.038 |
| 1.373 | k star (bias corrected MLE) | 1.321 |
| 0.0218 | Theta star (bias corrected MLE) | 0.0226 |
| 183.9 | nu star (bias corrected) | 177 |
| 0.0299 | MLE Sd (bias corrected) | 0.026 |
| 7.184 | 90% Percentile | 0.0643 |
| | 0.13 0.031 1.373 0.0218 183.9 0.0299 | 0.13 Median 0.031 CV 1.373 k star (bias corrected MLE) 0.0218 Theta star (bias corrected MLE) 183.9 nu star (bias corrected) 0.0299 MLE Sd (bias corrected) |

| 0E9/ Paragrilla | 0.0012 | 000/ Paraentila | 0.12 |
|--|---------------|--|---------|
| 95% Percentile | 0.0813 | 99% Percentile | 0.12 |
| | | g Gamma ROS Statistics on Imputed Data | |
| | - | H) and Hawkins Wixley (HW) Methods | 1.1547 |
| WH | HW | WH | HW |
| 95% Approx. Gamma UTL with 95% Coverage 0.097 | 0.0989 | 95% Approx. Gamma UPL 0.0805 | 0.0807 |
| 95% Gamma USL 0.171 | 0.185 | | |
| Estimates of G | amma Parai | meters using KM Estimates | |
| Mean (KM) | 0.0283 | SD (KM) | 0.0311 |
| Variance (KM) | | SE of Mean (KM) | 0.00401 |
| k hat (KM) | 0.824 | k star (KM) | 0.797 |
| nu hat (KM) | 110.4 | nu star (KM) | 106.8 |
| theta hat (KM) | 0.0343 | theta star (KM) | 0.0354 |
| 80% gamma percentile (KM) | 0.0343 | 90% gamma percentile (KM) | 0.0688 |
| 95% gamma percentile (KM) | 0.0402 | 99% gamma percentile (KM) | 0.146 |
| 7576 ganina percentile (Kivi) | 0.0710 | 7770 gariina percentile (KW) | 0.140 |
| The following statistics are c | omputed usi | ng gamma distribution and KM estimates | |
| Upper Limits using Wilsor | Hilferty (W | H) and Hawkins Wixley (HW) Methods | |
| WH | HW | WH | HW |
| 95% Approx. Gamma UTL with 95% Coverage 0.0924 | 0.0934 | 95% Approx. Gamma UPL 0.0764 | 0.076 |
| 95% KM Gamma Percentile 0.0747 | 0.0742 | 95% Gamma USL 0.164 | 0.176 |
| | | | |
| Lognormal GC | F Test on D | etected Observations Only | |
| Shapiro Wilk Test Statistic | 0.867 | Shapiro Wilk GOF Test | |
| 5% Shapiro Wilk Critical Value | 0.914 | Data Not Lognormal at 5% Significance Level | |
| Lilliefors Test Statistic | 0.201 | Lilliefors GOF Test | |
| 5% Lilliefors Critical Value | 0.18 | Data Not Lognormal at 5% Significance Level | |
| Data Not L | .ognormal at | 5% Significance Level | |
| Dealers and Lorenze of DOS Statistics | A ooursing I | agranged Distribution Heing Inspired Non-Detects | |
| | _ | Lognormal Distribution Using Imputed Non-Detects | -4.205 |
| Mean in Original Scale | 0.0276 | Mean in Log Scale | |
| SD in Original Scale | 0.0321 | SD in Log Scale 95% BCA UTL95% Coverage | 1.144 |
| 95% UTL95% Coverage | 0.146 | ŭ | 0.107 |
| 95% Bootstrap (%) UTL95% Coverage | 0.11 | 95% UPL (t) | 0.102 |
| 90% Percentile (z) | 0.0646 | 95% Percentile (z) | 0.0979 |
| 99% Percentile (z) | 0.213 | 95% USL | 0.499 |
| Statistics using KM estimates | on Logged [| Data and Assuming Lognormal Distribution | |
| KM Mean of Logged Data | -3.998 | 95% KM UTL (Lognormal)95% Coverage | 0.0985 |
| KM SD of Logged Data | 0.843 | 95% KM UPL (Lognormal) | 0.0756 |
| 95% KM Percentile Lognormal (z) | 0.0734 | 95% KM USL (Lognormal) | 0.243 |
| | | | |
| Background DL/2 | Statistics As | suming Lognormal Distribution | |
| Mean in Original Scale | 0.0298 | Mean in Log Scale | -3.872 |
| SD in Original Scale | 0.0305 | SD in Log Scale | 0.785 |
| 95% UTL95% Coverage | 0.0995 | 95% UPL (t) | 0.0778 |
| 90% Percentile (z) | 0.0569 | 95% Percentile (z) | 0.0757 |
| 99% Percentile (z) | 0.129 | 95% USL | 0.231 |

DL/2 is not a Recommended Method. DL/2 provided for comparisons and historical reasons.

Nonparametric Distribution Free Background Statistics

Data appear to follow a Discernible Distribution at 5% Significance Level

Nonparametric Upper Limits for BTVs(no distinction made between detects and nondetects)

| Order of Statistic, r | 66 | 95% UTL with95% Coverage | 0.11 |
|--|-------|---|-------|
| Approx, f used to compute achieved CC | 1.737 | Approximate Actual Confidence Coefficient achieved by UTL | 0.854 |
| Approximate Sample Size needed to achieve specified CC | 93 | 95% UPL | 0.1 |
| 95% USL | 0.13 | 95% KM Chebyshev UPL | 0.165 |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (chinle mixing zone nitrate)

| | General Statistics | | | | |
|--|--------------------|--------------------------------|--------|--|--|
| Total Number of Observations | 58 | Number of Missing Observations | 0 | | |
| Number of Distinct Observations | 41 | | | | |
| Number of Detects | 46 | Number of Non-Detects | 12 | | |
| Number of Distinct Detects | 41 | Number of Distinct Non-Detects | 1 | | |
| Minimum Detect | 0.1 | Minimum Non-Detect | 0.1 | | |
| Maximum Detect | 21.8 | Maximum Non-Detect | 0.1 | | |
| Variance Detected | 31.21 | Percent Non-Detects | 20.69% | | |
| Mean Detected | 4.867 | SD Detected | 5.587 | | |
| Mean of Detected Logged Data | 0.782 | SD of Detected Logged Data | 1.447 | | |
| Critical Values for Background Threshold Values (BTVs) | | | | | |
| Tolerance Factor K (For UTL) | 2.024 | d2max (for USL) | 3.014 | | |
| Normal GOF Test on Detects Only | | | | | |

Normal GOF Test on Detects Only

| Shapiro Wilk Test Statistic | 0.788 | Shapiro Wilk GOF Test |
|--------------------------------|-------|--|
| 5% Shapiro Wilk Critical Value | 0.945 | Data Not Normal at 5% Significance Level |
| Lilliefors Test Statistic | 0.229 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value | 0.129 | Data Not Normal at 5% Significance Level |

Data Not Normal at 5% Significance Level

Kaplan Meier (KM) Background Statistics Assuming Normal Distribution

| KM Mean | 3.881 | KM SD | 5.286 |
|-----------------------|-------|-----------------------|-------|
| 95% UTL95% Coverage | 14.58 | 95% KM UPL (t) | 12.8 |
| 90% KM Percentile (z) | 10.66 | 95% KM Percentile (z) | 12.58 |
| 99% KM Percentile (z) | 16.18 | 95% KM USL | 19.81 |
| | | | |

DL/2 Substitution Background Statistics Assuming Normal Distribution

| | | gg | |
|---------------------|-------|--------------------|-------|
| Mean | 3.871 | SD | 5.34 |
| 95% UTL95% Coverage | 14.68 | 95% UPL (t) | 12.88 |
| 90% Percentile (z) | 10.71 | 95% Percentile (z) | 12.65 |
| 99% Percentile (z) | 16.29 | 95% USL | 19.97 |

DL/2 is not a recommended method. DL/2 provided for comparisons and historical reasons

Gamma GOF Tests on Detected Observations Only

| Anderson-Darling GOF Test | 0.524 | A-D Test Statistic |
|--|--------|-----------------------|
| Detected data appear Gamma Distributed at 5% Significance Leve | 0.791 | 5% A-D Critical Value |
| Kolmogorov-Smirnov GOF | 0.0942 | K-S Test Statistic |
| Detected data appear Gamma Distributed at 5% Significance Leve | 0.136 | 5% K-S Critical Value |
| | | |

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

| 0.713 | k star (bias corrected MLE) | 0.748 | k hat (MLE) |
|-------|--------------------------------------|-------|---------------------------|
| 6.822 | Theta star (bias corrected MLE) | 6.509 | Theta hat (MLE) |
| 65.64 | nu star (bias corrected) | 68.79 | nu hat (MLE) |
| | | 4.867 | MLE Mean (bias corrected) |
| 4.824 | 95% Percentile of Chisquare (2kstar) | 5.762 | MLE Sd (bias corrected) |

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

| 3.862 | Mean | 0.01 | Minimum |
|-------|---------------------------------|-------|--------------------------------------|
| 1.525 | Median | 21.8 | Maximum |
| 1.384 | CV | 5.346 | SD |
| 0.383 | k star (bias corrected MLE) | 0.392 | k hat (MLE) |
| 10.08 | Theta star (bias corrected MLE) | 9.853 | Theta hat (MLE) |
| 44.45 | nu star (bias corrected) | 45.47 | nu hat (MLE) |
| 6.239 | MLE Sd (bias corrected) | 3.862 | MLE Mean (bias corrected) |
| 10.99 | 90% Percentile | 3.232 | 95% Percentile of Chisquare (2kstar) |
| 29.66 | 99% Percentile | 16.29 | 95% Percentile |

The following statistics are computed using Gamma ROS Statistics on Imputed Data Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods

| | WH | HW | | WH | HW |
|---|-------|-------|-----------------------|-------|------|
| 95% Approx. Gamma UTL with 95% Coverage | 20.36 | 24.4 | 95% Approx. Gamma UPL | 15.13 | 17.1 |
| 95% Gamma USI | 42.3 | 59.39 | | | |

Estimates of Gamma Parameters using KM Estimates

| Mean (KM) | 3.881 | SD (KM) | 5.286 |
|---------------------------|-------|---------------------------|-------|
| Variance (KM) | 27.94 | SE of Mean (KM) | 0.702 |
| k hat (KM) | 0.539 | k star (KM) | 0.523 |
| nu hat (KM) | 62.53 | nu star (KM) | 60.62 |
| theta hat (KM) | 7.2 | theta star (KM) | 7.426 |
| 80% gamma percentile (KM) | 6.385 | 90% gamma percentile (KM) | 10.4 |
| 95% gamma percentile (KM) | 14.67 | 99% gamma percentile (KM) | 25.14 |

The following statistics are computed using gamma distribution and KM estimates $% \left(1\right) =\left(1\right) \left(1\right) \left$

Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods

| | WH | HW | | WH | HW |
|---|-------|-------|-----------------------|-------|-------|
| 95% Approx. Gamma UTL with 95% Coverage | 18.46 | 20.58 | 95% Approx. Gamma UPL | 13.98 | 14.9 |
| 95% KM Gamma Percentile | 13.48 | 14.3 | 95% Gamma USL | 36.87 | 46.63 |

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic 0.953 Shapiro Wilk GOF Test

| 5% Shapiro Wilk Critical Value | 0.945 | Detected Data appear Lognormal at 5% Significance Level |
|--------------------------------|--------|---|
| Lilliefors Test Statistic | 0.0748 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value | 0.129 | Detected Data appear Lognormal at 5% Significance Level |

Detected Data appear Lognormal at 5% Significance Level

Background Lognormal ROS Statistics Assuming Lognormal Distribution Using Imputed Non-Detects

| Mean in Original Scale | 3.882 | Mean in Log Scale | 0.105 |
|-----------------------------------|-------|-------------------------|-------|
| SD in Original Scale | 5.332 | SD in Log Scale | 1.884 |
| 95% UTL95% Coverage | 50.3 | 95% BCA UTL95% Coverage | 17.47 |
| 95% Bootstrap (%) UTL95% Coverage | 17.47 | 95% UPL (t) | 26.62 |
| 90% Percentile (z) | 12.42 | 95% Percentile (z) | 24.62 |
| 99% Percentile (z) | 88.87 | 95% USL | 324.6 |

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

| KM Mean of Logged Data | 0.144 | 95% KM UTL (Lognormal)95% Coverage | 42.77 |
|---------------------------------|-------|------------------------------------|-------|
| KM SD of Logged Data | 1.785 | 95% KM UPL (Lognormal) | 23.41 |
| 95% KM Percentile Lognormal (z) | 21.73 | 95% KM USL (Lognormal) | 250.2 |

Background DL/2 Statistics Assuming Lognormal Distribution

| Mean in Original Scale | 3.871 | Mean in Log Scale 9 | 9.2157E-5 |
|------------------------|-------|---------------------|-----------|
| SD in Original Scale | 5.34 | SD in Log Scale | 2.009 |
| 95% UTL95% Coverage | 58.32 | 95% UPL (t) | 29.59 |
| 90% Percentile (z) | 13.12 | 95% Percentile (z) | 27.22 |
| 99% Percentile (z) | 107 | 95% USL | 426 |

DL/2 is not a Recommended Method. DL/2 provided for comparisons and historical reasons.

Nonparametric Distribution Free Background Statistics

Data appear to follow a Discernible Distribution at 5% Significance Level

Nonparametric Upper Limits for BTVs(no distinction made between detects and nondetects)

| 16.7 | 95% UTL with95% Coverage | 57 | Order of Statistic, r |
|-------|---|------|--|
| 0.793 | Approximate Actual Confidence Coefficient achieved by UTL | 1.5 | Approx, f used to compute achieved CC |
| 15.4 | 95% UPL | 93 | Approximate Sample Size needed to achieve specified CC |
| 27.12 | 95% KM Chebyshev UPL | 21.8 | 95% USL |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (chinle mixing zone selenium)

General Statistics

| Total Number of Observations | 96 | Number of Missing Observations | 0 |
|-------------------------------------|---------|--------------------------------|--------|
| Number of Distinct Observations | 57 | | |
| Number of Detects | 83 | Number of Non-Detects | 13 |
| Number of Distinct Detects | 56 | Number of Distinct Non-Detects | 3 |
| Minimum Detect | 0.005 | Minimum Non-Detect | 0.001 |
| Maximum Detect | 0.52 | Maximum Non-Detect | 0.01 |
| Variance Detected | 0.00445 | Percent Non-Detects | 13.54% |

| Mean Detected | 0.0555 | SD Detected | 0.0667 |
|------------------------------|--------|----------------------------|--------|
| Mean of Detected Logged Data | -3.358 | SD of Detected Logged Data | 0.988 |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.93 d2max (for USL) 3.196

Normal GOF Test on Detects Only

| Shapiro Wilk Test Statistic | 0.625 | Normal GOF Test on Detected Observations Only |
|------------------------------|--------|---|
| 5% Shapiro Wilk P Value | 0 | Data Not Normal at 5% Significance Level |
| Lilliefors Test Statistic | 0.224 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value | 0.0974 | Data Not Normal at 5% Significance Level |

Data Not Normal at 5% Significance Level

Kaplan Meier (KM) Background Statistics Assuming Normal Distribution

| KM Mean | 0.0482 | KMSD | 0.0644 |
|-----------------------|--------|-----------------------|--------|
| 95% UTL95% Coverage | 0.172 | 95% KM UPL (t) | 0.156 |
| 90% KM Percentile (z) | 0.131 | 95% KM Percentile (z) | 0.154 |
| 99% KM Percentile (z) | 0.198 | 95% KM USL | 0.254 |

DL/2 Substitution Background Statistics Assuming Normal Distribution

| 0.0646 | SD | 0.0484 | Mean |
|--------|--------------------|--------|---------------------|
| 0.156 | 95% UPL (t) | 0.173 | 95% UTL95% Coverage |
| 0.155 | 95% Percentile (z) | 0.131 | 90% Percentile (z) |
| 0.255 | 95% USL | 0.199 | 99% Percentile (z) |

DL/2 is not a recommended method. DL/2 provided for comparisons and historical reasons

Gamma GOF Tests on Detected Observations Only

| A-D Test Statistic | 1.784 | Anderson-Darling GOF Test |
|-----------------------|-------|---|
| 5% A-D Critical Value | 0.777 | Data Not Gamma Distributed at 5% Significance Level |
| K-S Test Statistic | 0.107 | Kolmogorov-Smirnov GOF |
| 5% K-S Critical Value | 0.101 | Data Not Gamma Distributed at 5% Significance Level |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

| 1.174 | k star (bias corrected MLE) | 1.21 | k hat (MLE) |
|--------|--------------------------------------|--------|---------------------------|
| 0.0473 | Theta star (bias corrected MLE) | 0.0459 | Theta hat (MLE) |
| 194.9 | nu star (bias corrected) | 200.8 | nu hat (MLE) |
| | | 0.0555 | MLE Mean (bias corrected) |
| 6.65 | 95% Percentile of Chisquare (2kstar) | 0.0512 | MLE Sd (bias corrected) |

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

| 0.0494 | Mean | 0.005 | Minimum |
|--------|---------------------------------|--------|-----------------|
| 0.031 | Median | 0.52 | Maximum |
| 1.295 | CV | 0.0639 | SD |
| 1.074 | k star (bias corrected MLE) | 1.101 | k hat (MLE) |
| 0.046 | Theta star (bias corrected MLE) | 0.0448 | Theta hat (MLE) |

| nu hat (MLE) | 211.5 | nu star (bias corrected) | 206.2 |
|---|----------------|---|---------|
| MLE Mean (bias corrected) | 0.0494 | MLE Sd (bias corrected) | 0.0476 |
| 95% Percentile of Chisquare (2kstar) | 6.275 | 90% Percentile | 0.112 |
| 95% Percentile | 0.144 | 99% Percentile | 0.219 |
| The following statistics are co | mputed using | g Gamma ROS Statistics on Imputed Data | |
| Upper Limits using Wilson | n Hilferty (WI | H) and Hawkins Wixley (HW) Methods | |
| WH | HW | WH | HW |
| 95% Approx. Gamma UTL with 95% Coverage 0.166 | 0.172 | 95% Approx. Gamma UPL 0.14 | 0.143 |
| 95% Gamma USL 0.337 | 0.38 | | |
| | | | |
| Estimates of G | Samma Parar | meters using KM Estimates | |
| Mean (KM) | | SD (KM) | 0.0644 |
| Variance (KM) | | SE of Mean (KM) | 0.00662 |
| k hat (KM) | | k star (KM) | 0.548 |
| nu hat (KM) | | nu star (KM) | 105.3 |
| theta hat (KM) | | theta star (KM) | 0.0878 |
| | | | |
| 80% gamma percentile (KM) | | 90% gamma percentile (KM) | 0.128 |
| 95% gamma percentile (KM) | 0.179 | 99% gamma percentile (KM) | 0.304 |
| | | | |
| | | ng gamma distribution and KM estimates | |
| | - . | H) and Hawkins Wixley (HW) Methods | |
| WH | HW | WH | HW |
| 95% Approx. Gamma UTL with 95% Coverage 0.187 | 0.205 | 95% Approx. Gamma UPL 0.154 | 0.165 |
| 95% KM Gamma Percentile 0.152 | 0.162 | 95% Gamma USL 0.409 | 0.513 |
| | | | |
| Lognormal GO | OF Test on D | etected Observations Only | |
| Shapiro Wilk Approximate Test Statistic | 0.936 | Shapiro Wilk GOF Test | |
| 5% Shapiro Wilk P Value | 5.0396E-4 | Data Not Lognormal at 5% Significance Level | |
| Lilliefors Test Statistic | 0.161 | Lilliefors GOF Test | |
| 5% Lilliefors Critical Value | 0.0974 | Data Not Lognormal at 5% Significance Level | |
| Data Not I | Lognormal at | 5% Significance Level | |
| | | | |
| Background Lognormal ROS Statistic | s Assuming L | ognormal Distribution Using Imputed Non-Detects | |
| Mean in Original Scale | 0.0486 | Mean in Log Scale | -3.654 |
| SD in Original Scale | 0.0645 | SD in Log Scale | 1.195 |
| 95% UTL95% Coverage | 0.26 | 95% BCA UTL95% Coverage | 0.157 |
| 95% Bootstrap (%) UTL95% Coverage | | 95% UPL (t) | 0.19 |
| 90% Percentile (z) | | 95% Percentile (z) | 0.185 |
| 99% Percentile (z) | | 95% USL | 1.179 |
| 7778 T 3. GOTTAIN (2) | 0.117 | 7070 002 | 1.177 |
| Statistics using KM astimates | on Logged F | Data and Assuming Lognormal Distribution | |
| | | | 0.401 |
| KM Mean of Logged Data | | 95% KM UTL (Lognormal)95% Coverage | |
| KM SD of Logged Data | | 95% KM UPL (Lognormal) | 0.27 |
| 95% KM Percentile Lognormal (z) | 0.26 | 95% KM USL (Lognormal) | 2.72 |
| | O | | |
| - | | suming Lognormal Distribution | |
| Mean in Original Scale | | Mean in Log Scale | -3.724 |
| SD in Original Scale | | SD in Log Scale | 1.319 |
| 95% UTL95% Coverage | 0.308 | 95% UPL (t) | 0.218 |
| 90% Percentile (z) | 0.131 | 95% Percentile (z) | 0.211 |
| 99% Percentile (z) | 0.519 | 95% USL | 1.634 |
| | | | |

DL/2 is not a Recommended Method. DL/2 provided for comparisons and historical reasons.

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for BTVs(no distinction made between detects and nondetects)

| 0.157 | 95% UTL with 95% Coverage | 94 | Order of Statistic, r |
|-------|---|-------|--|
| 0.864 | Approximate Actual Confidence Coefficient achieved by UTL | 1.649 | Approx, f used to compute achieved CC |
| 0.146 | 95% UPL | 124 | Approximate Sample Size needed to achieve specified CC |
| 0.33 | 95% KM Chebyshev UPL | 0.52 | 95% USL |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.

Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (chinle mixing zone sulfate)

General Statistics

| Total Number of Observations | 96 | Number of Distinct Observations | 84 |
|------------------------------|-------|---------------------------------|-------|
| Minimum | 409 | First Quartile | 724 |
| Second Largest | 1850 | Median | 928.5 |
| Maximum | 1880 | Third Quartile | 1245 |
| Mean | 1028 | SD | 402.8 |
| Coefficient of Variation | 0.392 | Skewness | 0.538 |
| Mean of logged Data | 6.858 | SD of logged Data | 0.4 |
| | | 35 | |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.93 d2max (for USL) 3.196

Normal GOF Test

| Shapiro Wilk Test Statistic 0.915 | Normal GOF Test |
|-------------------------------------|--|
| 5% Shapiro Wilk P Value 9.1083E-7 | Data Not Normal at 5% Significance Level |
| Lilliefors Test Statistic 0.118 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value 0.0907 | Data Not Normal at 5% Significance Level |

Data Not Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

| 95% UTL with 95% Coverage | 1805 | 90% Percentile (z) | 1544 |
|---------------------------|------|--------------------|------|
| 95% UPL (t) | 1701 | 95% Percentile (z) | 1691 |
| 95% USL | 2315 | 99% Percentile (z) | 1965 |

Gamma GOF Test

| Anderson-Darling Gamma GOF Test | 0.907 | A-D Test Statistic |
|---|--------|-----------------------|
| Data Not Gamma Distributed at 5% Significance Level | 0.754 | 5% A-D Critical Value |
| Kolmogorov-Smirnov Gamma GOF Test | 0.0901 | K-S Test Statistic |
| Detected data appear Gamma Distributed at 5% Significance Level | 0.0915 | 5% K-S Critical Value |

Detected data follow Appr. Gamma Distribution at 5% Significance Level

Gamma Statistics

Attachment 7: Statistical Calculations

| 6.435 | k star (bias corrected MLE) | 6.636 | k hat (MLE) |
|-------|---------------------------------|-------|---------------------------|
| 159.8 | Theta star (bias corrected MLE) | 154.9 | Theta hat (MLE) |
| 1236 | nu star (bias corrected) | 1274 | nu hat (MLE) |
| 405.3 | MLE Sd (bias corrected) | 1028 | MLE Mean (bias corrected) |

95% HW USL 2928

Background Statistics Assuming Gamma Distribution

| 95% Wilson Hilferty (WH) Approx. Gamma UPL | 1779 | 90% Percentile | 1570 |
|--|-------------|----------------|------|
| 95% Hawkins Wixley (HW) Approx. Gamma UPL | 1795 | 95% Percentile | 1773 |
| 95% WH Approx. Gamma UTL with 95% Coverage | 1934 | 99% Percentile | 2197 |
| 95% HW Approx. Gamma UTL with 95% Coverage | 1959 | | |

Lognormal GOF Test

95% WH USL 2816

| Shapiro Wilk Test Statistic | 0.948 | Shapiro Wilk Lognormal GOF Test |
|------------------------------|---------|--|
| 5% Shapiro Wilk P Value | 0.00234 | Data Not Lognormal at 5% Significance Level |
| Lilliefors Test Statistic | 0.0798 | Lilliefors Lognormal GOF Test |
| 5% Lilliefors Critical Value | 0.0907 | Data appear Lognormal at 5% Significance Level |

Data appear Approximate Lognormal at 5% Significance Level

Background Statistics assuming Lognormal Distribution

| 95% UTL with 95% Coverage | 2059 | 90% Percentile (z) | 1589 |
|---------------------------|------|--------------------|------|
| 95% UPL (t) | 1856 | 95% Percentile (z) | 1838 |
| 95% USL | 3417 | 99% Percentile (z) | 2413 |

Nonparametric Distribution Free Background Statistics

Data appear Approximate Gamma Distribution at 5% Significance Level

Nonparametric Upper Limits for Background Threshold Values

| Order of Statistic, r | 94 | 95% UTL with 95% Coverage | 1830 |
|--|-------|---|-------|
| Approx, f used to compute achieved CC | 1.649 | Approximate Actual Confidence Coefficient achieved by UTL | 0.864 |
| | | Approximate Sample Size needed to achieve specified CC | 124 |
| 95% Percentile Bootstrap UTL with 95% Coverage | 1830 | 95% BCA Bootstrap UTL with 95% Coverage | 1778 |
| 95% UPL | 1752 | 90% Percentile | 1673 |
| 90% Chebyshev UPL | 2243 | 95% Percentile | 1750 |
| 95% Chebyshev UPL | 2793 | 99% Percentile | 1852 |
| 95% USL | 1880 | | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (chinle mixing zone total dissolved solids)

General Statistics

| 81 | Number of Distinct Observations | 94 | Total Number of Observations |
|-------|---------------------------------|-----|------------------------------|
| 1363 | First Quartile | 976 | Minimum |
| 1803 | Median | 320 | Second Largest |
| 2298 | Third Quartile | 321 | Maximum |
| 683.6 | SD | 193 | Mean |

| Coefficient of Variation | 0.353 | Skewness | 0.544 |
|--------------------------|-------|-------------------|-------|
| Mean of logged Data | 7.507 | SD of logged Data | 0.35 |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.933 d2max (for USL) 3.188

Normal GOF Test

Shapiro Wilk Test Statistic 0.89 Normal GOF Test

5% Shapiro Wilk P Value 2.3775E-9 Data Not Normal at 5% Significance Level

Lilliefors Test Statistic 0.124 Lilliefors GOF Test

5% Lilliefors Critical Value 0.0916 Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

95% UTL with 95% Coverage 3256 90% Percentile (z) 2811 95% UPL (t) 3077 95% Percentile (z) 3059 95% USL 4114 99% Percentile (z) 3525

Gamma GOF Test

A-D Test Statistic 1.546 Anderson-Darling Gamma GOF Test

5% A-D Critical Value 0.753 Data Not Gamma Distributed at 5% Significance Level

K-S Test Statistic 0.109 Kolmogorov-Smirnov Gamma GOF Test

5% K-S Critical Value 0.0923 Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE) 8.387 k star (bias corrected MLE) 8.127

Theta hat (MLE) 230.7 Theta star (bias corrected MLE) 238.1

nu hat (MLE) 1577 nu star (bias corrected) 1528

MLE Mean (bias corrected) 1935 MLE Sd (bias corrected) 678.7

Background Statistics Assuming Gamma Distribution

95% Wilson Hilferty (WH) Approx. Gamma UPL 3179 90% Percentile 2840 95% Hawkins Wixley (HW) Approx. Gamma UPL 3199 95% WH Approx. Gamma UTL with 95% Coverage 3432 99% Percentile 3852 95% HW Approx. Gamma UTL with 95% Coverage 3465

95% WH USL 4823 95% HW USL 4969

Lognormal GOF Test

Shapiro Wilk Test Statistic 0.925 Shapiro Wilk Lognormal GOF Test

5% Shapiro Wilk P Value 1.5087E-5 Data Not Lognormal at 5% Significance Level

Lilliefors Test Statistic 0.103 Lilliefors Lognormal GOF Test

5% Lilliefors Critical Value 0.0916 Data Not Lognormal at 5% Significance Level

Data Not Lognormal at 5% Significance Level

Background Statistics assuming Lognormal Distribution

 95% UTL with
 95% Coverage
 3584
 90% Percentile (z)
 2852

 95% UPL (t)
 3269
 95% Percentile (z)
 3240

 95% USL
 5563
 99% Percentile (z)
 4113

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for Background Threshold Values

| Order of Statistic, r | 92 | 95% UTL with 95% Coverage | 3200 |
|--|-------|---|-------|
| Approx, f used to compute achieved CC | 1.614 | Approximate Actual Confidence Coefficient achieved by UTL | 0.855 |
| | | Approximate Sample Size needed to achieve specified CC | 124 |
| 95% Percentile Bootstrap UTL with 95% Coverage | 3200 | 95% BCA Bootstrap UTL with 95% Coverage | 3200 |
| 95% UPL | 3170 | 90% Percentile | 3067 |
| 90% Chebyshev UPL | 3996 | 95% Percentile | 3138 |
| 95% Chebyshev UPL | 4930 | 99% Percentile | 3201 |
| 95% USL | 3217 | | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (chinle mixing zone uranium)

| | General Statis | stics | |
|---------------------------------|-------------------|---|---------|
| Total Number of Observations | 96 | Number of Missing Observations | 0 |
| Number of Distinct Observations | 76 | | |
| Number of Detects | 94 | Number of Non-Detects | 2 |
| Number of Distinct Detects | 75 | Number of Distinct Non-Detects | 2 |
| Minimum Detect | 0.002 | Minimum Non-Detect | 0.00848 |
| Maximum Detect | 0.231 | Maximum Non-Detect | 0.01 |
| Variance Detected | 0.00394 | Percent Non-Detects | 2.083% |
| Mean Detected | 0.0657 | SD Detected | 0.0628 |
| Mean of Detected Logged Data | -3.252 | SD of Detected Logged Data | 1.123 |
| Critical Values fo | or Background Ti | hreshold Values (BTVs) | |
| Tolerance Factor K (For UTL) | 1.93 | d2max (for USL) | 3.196 |
| Norma | al GOF Test on I | Detects Only | |
| Shapiro Wilk Test Statistic | 0.805 | Normal GOF Test on Detected Observations Only | |
| 5% Shapiro Wilk P Value | 0 | Data Not Normal at 5% Significance Level | |
| Lilliefors Test Statistic | 0.258 | Lilliefors GOF Test | |
| 5% Lilliefors Critical Value | 0.0916 | Data Not Normal at 5% Significance Level | |
| Data Not | Normal at 5% Si | ignificance Level | |
| Kaplan Meler (KM) Back | ground Statistics | s Assuming Normal Distribution | |
| KM Mean | 0.0645 | KM SD | 0.0624 |
| 95% UTL95% Coverage | 0.185 | 95% KM UPL (t) | 0.169 |
| 90% KM Percentile (z) | 0.144 | 95% KM Percentile (z) | 0.167 |
| 99% KM Percentile (z) | 0.21 | 95% KM USL | 0.264 |
| DL/2 Substitution Backg | ground Statistics | Assuming Normal Distribution | |
| Mean | 0.0645 | SD | 0.0627 |
| | | | |

95% UPL (t)

95% Percentile (z)

0.169

0.168

0.186

0.145

95% UTL95% Coverage

90% Percentile (z)

| 99% Percentile (z) | 0.21 | 95% USL | 0.265 |
|--------------------|------|---------|-------|
| | | | |

DL/2 is not a recommended method. DL/2 provided for comparisons and historical reasons

Gamma GOF Tests on Detected Observations Only

| Anderson-Darling GOF Test | 2.51 | A-D Test Statistic |
|---|--------|-----------------------|
| Data Not Gamma Distributed at 5% Significance Level | 0.781 | 5% A-D Critical Value |
| Kolmogorov-Smirnov GOF | 0.175 | K-S Test Statistic |
| Data Not Gamma Distributed at 5% Significance Level | 0.0949 | 5% K-S Critical Value |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

| k hat (MLE) | 1.08 | k star (bias corrected MLE) | 1.053 |
|---------------------------|--------|--------------------------------------|--------|
| Theta hat (MLE) | 0.0609 | Theta star (bias corrected MLE) | 0.0624 |
| nu hat (MLE) | 203.1 | nu star (bias corrected) | 197.9 |
| MLE Mean (bias corrected) | 0.0657 | | |
| MLE Sd (bias corrected) | 0.0641 | 95% Percentile of Chisquare (2kstar) | 6.195 |

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

| 0.0646 | Mean | 0.002 | iviinimum |
|--------|---------------------------------|--------|--------------------------------------|
| 0.0311 | Median | 0.231 | Maximum |
| 0.97 | CV | 0.0626 | SD |
| 1.035 | k star (bias corrected MLE) | 1.062 | k hat (MLE) |
| 0.0624 | Theta star (bias corrected MLE) | 0.0608 | Theta hat (MLE) |
| 198.8 | nu star (bias corrected) | 203.8 | nu hat (MLE) |
| 0.0635 | MLE Sd (bias corrected) | 0.0646 | MLE Mean (bias corrected) |
| 0.147 | 90% Percentile | 6.128 | 95% Percentile of Chisquare (2kstar) |
| 0.292 | 99% Percentile | 0.191 | 95% Percentile |

The following statistics are computed using Gamma ROS Statistics on Imputed Data Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods

| | WH | HW | | WH | HW |
|---|-------|-------|-----------------------|-------|-------|
| 95% Approx. Gamma UTL with 95% Coverage | 0.225 | 0.239 | 95% Approx. Gamma UPL | 0.189 | 0.197 |
| 95% Gamma USL | 0.459 | 0.54 | | | |

Estimates of Gamma Parameters using KM Estimates

| Mean (KM) | 0.0645 | SD (KM) | 0.0624 |
|---------------------------|---------|---------------------------|--------|
| Variance (KM) | 0.00389 | SE of Mean (KM) | 0.0064 |
| k hat (KM) | 1.068 | k star (KM) | 1.042 |
| nu hat (KM) | 205.1 | nu star (KM) | 200 |
| theta hat (KM) | 0.0604 | theta star (KM) | 0.0619 |
| 80% gamma percentile (KM) | 0.103 | 90% gamma percentile (KM) | 0.147 |
| 95% gamma percentile (KM) | 0.19 | 99% gamma percentile (KM) | 0.291 |

The following statistics are computed using gamma distribution and KM estimates

Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods

| | WH | HW | | WH | HW |
|---|-------|-------|-----------------------|-------|-------|
| 95% Approx. Gamma UTL with 95% Coverage | 0.225 | 0.239 | 95% Approx. Gamma UPL | 0.189 | 0.198 |

| 95% KM Gamma Percentile | 0.186 | ი 194 | 95% Gamma USI | 0.461 | N 544 |
|-------------------------|-------|-------|---------------|-------|-------|
| | | | | | |

Lognormal GOF Test on Detected Observations Only

| Shapiro Wilk Approximate Test Statistic | 0.935 | Shapiro Wilk GOF Test |
|---|-------|-----------------------|
|---|-------|-----------------------|

5% Shapiro Wilk P Value 1.2632E-4 Data Not Lognormal at 5% Significance Level

Lilliefors Test Statistic 0.123 Lilliefors GOF Test

5% Lilliefors Critical Value 0.0916 Data Not Lognormal at 5% Significance Level

Data Not Lognormal at 5% Significance Level

Background Lognormal ROS Statistics Assuming Lognormal Distribution Using Imputed Non-Detects

| Mean in Original Scale | 0.0645 | Mean in Log Scale | -3.289 |
|-----------------------------------|--------|-------------------------|--------|
| SD in Original Scale | 0.0627 | SD in Log Scale | 1.141 |
| 95% UTL95% Coverage | 0.337 | 95% BCA UTL95% Coverage | 0.201 |
| 95% Bootstrap (%) UTL95% Coverage | 0.201 | 95% UPL (t) | 0.251 |
| 90% Percentile (z) | 0.161 | 95% Percentile (z) | 0.244 |
| 99% Percentile (z) | 0.53 | 95% USL | 1.43 |

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

| KM Mean of Logged Data | -3.296 | 95% KM UTL (Lognormal)95% Coverage | 0.339 |
|---------------------------------|--------|------------------------------------|-------|
| KM SD of Logged Data | 1.147 | 95% KM UPL (Lognormal) | 0.251 |
| 95% KM Percentile Lognormal (z) | 0.244 | 95% KM USL (Lognormal) | 1.447 |

Background DL/2 Statistics Assuming Lognormal Distribution

| in | Original Scale | 0.0645 | Mean in Log Scale | -3.296 |
|----|----------------|--------|--------------------|--------|
| in | Original Scale | 0.0627 | SD in Log Scale | 1.152 |
| ۲ç | 5% Coverage | 0.342 | 95% UPL (t) | 0.254 |
|)% | Percentile (z) | 0.162 | 95% Percentile (z) | 0.246 |
| 9% | Percentile (z) | 0.541 | 95% USL | 1.472 |

DL/2 is not a Recommended Method. DL/2 provided for comparisons and historical reasons.

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for BTVs(no distinction made between detects and nondetects)

| 0.201 | 95% UTL with95% Coverage | 94 | Order of Statistic, r | |
|-------|---|-------|--|--|
| 0.864 | Approximate Actual Confidence Coefficient achieved by UTL | 1.649 | Approx, f used to compute achieved CC | |
| 0.186 | 95% UPL | 124 | Approximate Sample Size needed to achieve specified CC | |
| 0.338 | 95% KM Chebyshev UPL | 0.231 | 95% USL | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.

Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (low chinle non-mixing zone chlorine)

General Statistics

| Total Number of Observations | 28 | Number of Distinct Observations | 26 |
|------------------------------|-----|---------------------------------|-------|
| Minimum | 46 | First Quartile | 59.75 |
| Second Largest | 634 | Median | 101 |

| Maximum | 657 | Third Quartile | 248 |
|--------------------------|-------|-------------------|-------|
| Mean | 204 | SD | 215.3 |
| Coefficient of Variation | 1.055 | Skewness | 1.311 |
| Mean of logged Data | 4.859 | SD of logged Data | 0.927 |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 2.246 d2max (for USL) 2.714

Normal GOF Test

| Shapiro Wilk Test Statistic | 0.696 | Shapiro Wilk GOF Test |
|--------------------------------|-------|--|
| 5% Shapiro Wilk Critical Value | 0.924 | Data Not Normal at 5% Significance Level |
| Lilliefors Test Statistic | 0.333 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value | 0.164 | Data Not Normal at 5% Significance Level |

Data Not Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

| 95% UTL with 95% Coverage | 687.7 | 90% Percentile (z) | 480 |
|---------------------------|-------|--------------------|-------|
| 95% UPL (t) | 577.3 | 95% Percentile (z) | 558.2 |
| 95% [[S] | 788 6 | 99% Percentile (z) | 705 |

Gamma GOF Test

| Anderson-Darling Gamma GOF Test | 2.373 | A-D Test Statistic |
|---|-------|-----------------------|
| Data Not Gamma Distributed at 5% Significance | 0.769 | 5% A-D Critical Value |
| Kolmogorov-Smirnov Gamma GOF Test | 0.249 | K-S Test Statistic |
| Data Not Gamma Distributed at 5% Significance | 0.169 | 5% K-S Critical Value |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

| 1.12 | k star (bias corrected MLE) | 1.228 | k hat (MLE) |
|-------|---------------------------------|-------|---------------------------|
| 182.1 | Theta star (bias corrected MLE) | 166.2 | Theta hat (MLE) |
| 62.73 | nu star (bias corrected) | 68.76 | nu hat (MLE) |
| 192.8 | MLE Sd (bias corrected) | 204 | MLE Mean (bias corrected) |

Background Statistics Assuming Gamma Distribution

| 95% Wilson Hilferty (WH) Approx. Gamma UPL | 597 | 90% Percentile | 456.8 |
|--|-------|----------------|-------|
| 95% Hawkins Wixley (HW) Approx. Gamma UPL | 604.4 | 95% Percentile | 587.3 |
| 95% WH Approx. Gamma UTL with 95% Coverage | 815.3 | 99% Percentile | 887.9 |
| 95% HW Approx. Gamma UTL with 95% Coverage | 850.8 | | |
| 95% WH USL | 1056 | 95% HW USL | 1136 |

Lognormal GOF Test

| Shapiro Wilk Test Statistic | 0.838 | Shapiro Wilk Lognormal GOF Test |
|--------------------------------|-------|---|
| 5% Shapiro Wilk Critical Value | 0.924 | Data Not Lognormal at 5% Significance Level |
| Lilliefors Test Statistic | 0.182 | Lilliefors Lognormal GOF Test |
| 5% Lilliefors Critical Value | 0.164 | Data Not Lognormal at 5% Significance Level |
| | | |

Data Not Lognormal at 5% Significance Level

Background Statistics assuming Lognormal Distribution

| 95% UTL with 95% Coverage | 1033 | 90% Percentile (z) | 422.5 |
|---------------------------|-------|--------------------|-------|
| 95% UPL (t) | 642.3 | 95% Percentile (z) | 591.7 |
| 95% USL | 1594 | 99% Percentile (z) | 1113 |

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for Background Threshold Values

| Order of Statistic, r | 28 | 95% UTL with 95% Coverage | 657 |
|--|-------|---|-------|
| Approx, f used to compute achieved CC | 1.474 | Approximate Actual Confidence Coefficient achieved by UTL | 0.762 |
| | | Approximate Sample Size needed to achieve specified CC | 59 |
| 95% Percentile Bootstrap UTL with 95% Coverage | 657 | 95% BCA Bootstrap UTL with 95% Coverage | 657 |
| 95% UPL | 646.7 | 90% Percentile | 614.1 |
| 90% Chebyshev UPL | 861.5 | 95% Percentile | 633.7 |
| 95% Chebyshev UPL | 1159 | 99% Percentile | 650.8 |
| 95% USL | 657 | | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (low chinle non-mixing zone selenium)

| | General | Statistics | |
|-------------------------------------|-------------|--|--------|
| Total Number of Observations | 59 | Number of Missing Observations | 0 |
| Number of Distinct Observations | 35 | | |
| Number of Detects | 43 | Number of Non-Detects | 16 |
| Number of Distinct Detects | 34 | Number of Distinct Non-Detects | 3 |
| Minimum Detect | 0.008 | Minimum Non-Detect | 0.005 |
| Maximum Detect | 0.362 | Maximum Non-Detect | 0.014 |
| Variance Detected | 0.0138 | Percent Non-Detects | 27.12% |
| Mean Detected | 0.0893 | SD Detected | 0.118 |
| Mean of Detected Logged Data | -3.314 | SD of Detected Logged Data | 1.322 |
| | | | |
| Critical Values fo | r Backgrou | und Threshold Values (BTVs) | |
| Tolerance Factor K (For UTL) | 2.02 | d2max (for USL) | 3.021 |
| | | | |
| Norma | al GOF Tes | st on Detects Only | |
| Shapiro Wilk Test Statistic | 0.674 | Shapiro Wilk GOF Test | |
| 5% Shapiro Wilk Critical Value | 0.943 | Data Not Normal at 5% Significance Level | |
| Lilliefors Test Statistic | 0.379 | Lilliefors GOF Test | |
| 5% Lilliefors Critical Value | 0.134 | Data Not Normal at 5% Significance Level | |
| Data Not I | Normal at ! | 5% Significance Level | |
| | | | |
| Kaplan Meier (KM) Back | ground Sta | atistics Assuming Normal Distribution | |
| KM Mean | 0.0666 | KM SD | 0.106 |
| 95% UTL95% Coverage | 0.281 | 95% KM UPL (t) | 0.245 |
| 90% KM Percentile (z) | 0.202 | 95% KM Percentile (z) | 0.241 |
| 99% KM Percentile (z) | 0.313 | 95% KM USL | 0.387 |

SD

0.107

DL/2 Substitution Background Statistics Assuming Normal Distribution

Mean 0.0661

| 95% UTL95% Coverage | 0.283 | 95% UPL (t) | 0.247 |
|---------------------|-------|--------------------|-------|
| 90% Percentile (z) | 0.204 | 95% Percentile (z) | 0.242 |
| 99% Percentile (z) | 0.316 | 95% USL | 0.39 |

DL/2 is not a recommended method. DL/2 provided for comparisons and historical reasons

Gamma GOF Tests on Detected Observations Only

| Anderson-Darling GOF Test | 4.59 | A-D Test Statistic |
|---|-------|-----------------------|
| Data Not Gamma Distributed at 5% Significance Level | 0.79 | 5% A-D Critical Value |
| Kolmogorov-Smirnov GOF | 0.298 | K-S Test Statistic |
| Data Not Gamma Distributed at 5% Significance Level | 0.14 | 5% K-S Critical Value |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

| k hat (MLE) | 0.676 | k star (bias corrected MLE) | 0.645 |
|---------------------------|--------|--------------------------------------|-------|
| Theta hat (MLE) | 0.132 | Theta star (bias corrected MLE) | 0.139 |
| nu hat (MLE) | 58.16 | nu star (bias corrected) | 55.43 |
| MLE Mean (bias corrected) | 0.0893 | | |
| MLE Sd (bias corrected) | 0.111 | 95% Percentile of Chisquare (2kstar) | 4.52 |

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

| Minimum | 0.008 | Mean | 0.0678 |
|--------------------------------------|--------|---------------------------------|--------|
| Maximum | 0.362 | Median | 0.016 |
| SD | 0.106 | CV | 1.567 |
| k hat (MLE) | 0.631 | k star (bias corrected MLE) | 0.61 |
| Theta hat (MLE) | 0.108 | Theta star (bias corrected MLE) | 0.111 |
| nu hat (MLE) | 74.41 | nu star (bias corrected) | 71.96 |
| MLE Mean (bias corrected) | 0.0678 | MLE Sd (bias corrected) | 0.0868 |
| 95% Percentile of Chisquare (2kstar) | 4.363 | 90% Percentile | 0.176 |
| 95% Percentile | 0.243 | 99% Percentile | 0.404 |

The following statistics are computed using Gamma ROS Statistics on Imputed Data

Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods

| | WH | HW | | WH | HW |
|---|-------|-------|-----------------------|-------|-------|
| 95% Approx. Gamma UTL with 95% Coverage | 0.293 | 0.298 | 95% Approx. Gamma UPL | 0.225 | 0.222 |
| 95% Gamma USL | 0.576 | 0.644 | | | |

Estimates of Gamma Parameters using KM Estimates

| 0.0666 | SD (KM) | 0.106 |
|--------|--|---|
| 0.0112 | SE of Mean (KM) | 0.014 |
| 0.394 | k star (KM) | 0.386 |
| 46.53 | nu star (KM) | 45.5 |
| 0.169 | theta star (KM) | 0.173 |
| 0.107 | 90% gamma percentile (KM) | 0.189 |
| 0.28 | 99% gamma percentile (KM) | 0.51 |
| | 0.0112 0.394 46.53 0.169 0.107 | 0.0112 SE of Mean (KM) 0.394 k star (KM) 46.53 nu star (KM) 0.169 theta star (KM) 0.107 90% gamma percentile (KM) |

The following statistics are computed using gamma distribution and KM estimates

Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods

| | WH | HW | | WH | HW |
|---|-------|-------|-----------------------|-------|-------|
| 95% Approx. Gamma UTL with 95% Coverage | 0.297 | 0.306 | 95% Approx. Gamma UPL | 0.226 | 0.225 |
| 95% KM Gamma Percentile | 0.218 | 0.216 | 95% Gamma USL | 0.595 | 0.681 |

Lognormal GOF Test on Detected Observations Only

| Shapiro Wilk Test Statistic | 0.805 | Shapiro Wilk GOF Test |
|--------------------------------|-------|---|
| 5% Shapiro Wilk Critical Value | 0.943 | Data Not Lognormal at 5% Significance Level |
| Lilliefors Test Statistic | 0.223 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value | 0.134 | Data Not Lognormal at 5% Significance Level |

Data Not Lognormal at 5% Significance Level

Background Lognormal ROS Statistics Assuming Lognormal Distribution Using Imputed Non-Detects

| Mean in Original Scale | 0.0658 | Mean in Log Scale | -4.085 |
|-----------------------------------|--------|-------------------------|--------|
| SD in Original Scale | 0.107 | SD in Log Scale | 1.74 |
| 95% UTL95% Coverage | 0.565 | 95% BCA UTL95% Coverage | 0.34 |
| 95% Bootstrap (%) UTL95% Coverage | 0.337 | 95% UPL (t) | 0.316 |
| 90% Percentile (z) | 0.156 | 95% Percentile (z) | 0.294 |
| 99% Percentile (z) | 0.963 | 95% USL | 3.22 |

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

| KM Mean of Logged Data | -3.833 | 95% KM UTL (Lognormal)95% Coverage | 0.372 |
|---------------------------------|--------|------------------------------------|-------|
| KM SD of Logged Data | 1.407 | 95% KM UPL (Lognormal) | 0.232 |
| 95% KM Percentile Lognormal (z) | 0.219 | 95% KM USL (Lognormal) | 1.517 |

Background DL/2 Statistics Assuming Lognormal Distribution

| Mean in Original Scale | 0.0661 | Mean in Log Scale | -3.964 |
|------------------------|--------|--------------------|--------|
| SD in Original Scale | 0.107 | SD in Log Scale | 1.568 |
| 95% UTL95% Coverage | 0.452 | 95% UPL (t) | 0.267 |
| 90% Percentile (z) | 0.142 | 95% Percentile (z) | 0.251 |
| 99% Percentile (z) | 0.73 | 95% USL | 2.167 |

DL/2 is not a Recommended Method. DL/2 provided for comparisons and historical reasons.

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for BTVs(no distinction made between detects and nondetects)

| 0.337 | 95% UTL with 95% Coverage | 58 | Order of Statistic, r |
|-------|---|-------|--|
| 0.801 | Approximate Actual Confidence Coefficient achieved by UTL | 1.526 | Approx, f used to compute achieved CC |
| 0.332 | 95% UPL | 93 | Approximate Sample Size needed to achieve specified CC |
| 0.533 | 95% KM Chebyshev UPL | 0.362 | 95% USL |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (low chinle non-mixing zone sulfate)

General Statistics

Total Number of Observations 60 Number of Distinct Observations 56

| Minimum | 284 | First Quartile | 537 |
|--------------------------|-------|-------------------|-------|
| Second Largest | 2080 | Median | 724.5 |
| Maximum | 2140 | Third Quartile | 1570 |
| Mean | 990.9 | SD | 577.9 |
| Coefficient of Variation | 0.583 | Skewness | 0.608 |
| Mean of logged Data | 6.725 | SD of logged Data | 0.604 |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 2.017 d2max (for USL) 3.027

Normal GOF Test

Shapiro Wilk Test Statistic 0.854 Normal GOF Test

5% Shapiro Wilk P Value 8.6643E-8 Data Not Normal at 5% Significance Level

Lilliefors Test Statistic 0.209 Lilliefors GOF Test

5% Lilliefors Critical Value 0.114 Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

 95% UTL with
 95% Coverage
 2156
 90% Percentile (z)
 1732

 95% UPL (t)
 1965
 95% Percentile (z)
 1941

 95% USL
 2740
 99% Percentile (z)
 2335

Gamma GOF Test

| A-D Test Statistic | 2.01 | Anderson-Darling Gamma GOF Test |
|-----------------------|-------|---|
| 5% A-D Critical Value | 0.758 | Data Not Gamma Distributed at 5% Significance Level |
| K-S Test Statistic | 0.148 | Kolmogorov-Smirnov Gamma GOF Test |
| 5% K-S Critical Value | 0.116 | Data Not Gamma Distributed at 5% Significance Level |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

| k hat (MLE) | 3.036 | k star (bias corrected MLE) | 2.895 |
|---------------------------|-------|---------------------------------|-------|
| Theta hat (MLE) | 326.4 | Theta star (bias corrected MLE) | 342.3 |
| nu hat (MLE) | 364.3 | nu star (bias corrected) | 347.4 |
| MLE Mean (bias corrected) | 990.9 | MLE Sd (bias corrected) | 582.4 |

Background Statistics Assuming Gamma Distribution

| 95% Wilson Hilferty (WH) Approx. Gamma UPL | 2119 | 90% Percentile | 1772 |
|---|------|----------------|------|
| 95% Hawkins Wixley (HW) Approx. Gamma UPL | 2154 | 95% Percentile | 2101 |
| 95% WH Approx. Gamma UTL with $$ 95% Coverage | 2451 | 99% Percentile | 2816 |
| 95% HW Approx. Gamma UTL with $$ 95% Coverage | 2519 | | |
| 95% WH USL | 3674 | 95% HW USL | 3918 |

Lognormal GOF Test

| Shapiro Wilk Lognormal GOF Test | Shapiro Wilk Test Statistic 0.91 |
|---|------------------------------------|
| Data Not Lognormal at 5% Significance Level | 5% Shapiro Wilk P Value 1.4858E-4 |
| Lilliefors Lognormal GOF Test | Lilliefors Test Statistic 0.143 |
| Data Not Lognormal at 5% Significance Level | 5% Lilliefors Critical Value 0.114 |

Data Not Lognormal at 5% Significance Level

Background Statistics assuming Lognormal Distribution

95% UTL with 95% Coverage 2814 90% Percentile (z) 1805

| 95% UPL (t) | 2303 | 95% Percentile (z) | 2248 |
|-------------|------|--------------------|------|
| 95% USL | 5177 | 99% Percentile (z) | 3392 |

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for Background Threshold Values

| Order of Statistic, r | 59 | 95% UTL with 95% Coverage | 2080 |
|--|-------|---|-------|
| Approx, f used to compute achieved CC | 1.553 | Approximate Actual Confidence Coefficient achieved by UTL | 0.808 |
| | | Approximate Sample Size needed to achieve specified CC | 93 |
| 95% Percentile Bootstrap UTL with 95% Coverage | 2083 | 95% BCA Bootstrap UTL with 95% Coverage | 2083 |
| 95% UPL | 2066 | 90% Percentile | 1801 |
| 90% Chebyshev UPL | 2739 | 95% Percentile | 2003 |
| 95% Chebyshev UPL | 3531 | 99% Percentile | 2105 |
| 95% USL | 2140 | | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (low chinle non-mixing zone total dissolved solids)

General Statistics

| Total Number of Observations | 58 | Number of Distinct Observations | 52 |
|------------------------------|-------|---------------------------------|-------|
| Minimum | 805 | First Quartile | 1133 |
| Second Largest | 4180 | Median | 1530 |
| Maximum | 4180 | Third Quartile | 3687 |
| Mean | 2181 | SD | 1269 |
| Coefficient of Variation | 0.582 | Skewness | 0.588 |
| Mean of logged Data | 7.521 | SD of logged Data | 0.579 |
| | | | |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 2.024 d2max (for USL) 3.014

Normal GOF Test

| Shapiro Wilk Test Statistic 0.784 | Normal GOF Test |
|------------------------------------|--|
| 5% Shapiro Wilk P Value 4.225E-11 | Data Not Normal at 5% Significance Level |
| Lilliefors Test Statistic 0.245 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value 0.116 | Data Not Normal at 5% Significance Level |

Data Not Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

| 95% UTL with 95% Coverage | 4748 | 90% Percentile (z) | 3806 |
|---------------------------|------|--------------------|------|
| 95% UPL (t) | 4320 | 95% Percentile (z) | 4267 |
| 95% USL | 6004 | 99% Percentile (z) | 5132 |

Gamma GOF Test

| A-D Test Statistic | 3.524 | Anderson-Darling Gamma GOF Test |
|-----------------------|-------|---|
| 5% A-D Critical Value | 0.757 | Data Not Gamma Distributed at 5% Significance Level |

| K-S Test Statistic | 0.193 | Kolmogorov-Smirnov Gamma GOF Test |
|-----------------------|-------|---|
| 5% K-S Critical Value | 0.118 | Data Not Gamma Distributed at 5% Significance Level |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

| 3.019 | k star (bias corrected MLE) | 3.172 | k hat (MLE) |
|-------|---------------------------------|-------|---------------------------|
| 722.3 | Theta star (bias corrected MLE) | 687.5 | Theta hat (MLE) |
| 350.2 | nu star (bias corrected) | 367.9 | nu hat (MLE) |
| 1255 | MLE Sd (bias corrected) | 2181 | MLE Mean (bias corrected) |

Background Statistics Assuming Gamma Distribution

| 95% Wilson Hilferty (WH) Approx. Gamma UPL | 4607 | 90% Percentile | 3863 |
|---|------|----------------|------|
| 95% Hawkins Wixley (HW) Approx. Gamma UPL | 4666 | 95% Percentile | 4568 |
| 95% WH Approx. Gamma UTL with $$ 95% Coverage | 5331 | 99% Percentile | 6095 |
| 95% HW Approx. Gamma UTL with $$ 95% Coverage | 5454 | | |
| 95% WH USL | 7880 | 95% HW USL | 8341 |

Lognormal GOF Test

| Shapiro Wilk Test Statistic 0.851 | Shapiro Wilk Lognormal GOF Test |
|------------------------------------|---|
| 5% Shapiro Wilk P Value 1.1637E-7 | Data Not Lognormal at 5% Significance Level |
| Lilliefors Test Statistic 0.176 | Lilliefors Lognormal GOF Test |
| 5% Lilliefors Critical Value 0.116 | Data Not Lognormal at 5% Significance Level |

Data Not Lognormal at 5% Significance Level

Background Statistics assuming Lognormal Distribution

| 95% UTL with 95% Coverage | 5959 | 90% Percentile (z) | 3878 |
|---------------------------|-------|--------------------|------|
| 95% UPL (t) | 4901 | 95% Percentile (z) | 4785 |
| 95% USL | 10566 | 99% Percentile (z) | 7097 |

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for Background Threshold Values

| Order of Statistic, r | 57 | 95% UTL with 95% Coverage | 4180 |
|--|------|---|-------|
| Approx, f used to compute achieved CC | 1.5 | Approximate Actual Confidence Coefficient achieved by UTL | 0.793 |
| | | Approximate Sample Size needed to achieve specified CC | 93 |
| 95% Percentile Bootstrap UTL with 95% Coverage | 4180 | 95% BCA Bootstrap UTL with 95% Coverage | 4180 |
| 95% UPL | 4152 | 90% Percentile | 4076 |
| 90% Chebyshev UPL | 6019 | 95% Percentile | 4142 |
| 95% Chebyshev UPL | 7757 | 99% Percentile | 4180 |
| 95% USL | 4180 | | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (mid chinle non-mixing zone selenium)

General Statistics

| Total Number of Observations | 192 | Number of Missing Observations | 0 |
|---------------------------------|-----------|--------------------------------|--------|
| Number of Distinct Observations | 37 | | |
| Number of Detects | 123 | Number of Non-Detects | 69 |
| Number of Distinct Detects | 35 | Number of Distinct Non-Detects | 4 |
| Minimum Detect | 0.003 | Minimum Non-Detect | 0.001 |
| Maximum Detect | 0.222 | Maximum Non-Detect | 0.01 |
| Variance Detected | 8.0371E-4 | Percent Non-Detects | 35.94% |
| Mean Detected | 0.0226 | SD Detected | 0.0283 |
| Mean of Detected Logged Data | -4.169 | SD of Detected Logged Data | 0.768 |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.84 d2max (for USL) 3.42

Normal GOF Test on Detects Only

| Shapiro Wilk Test Statistic | 0.565 | Normal GOF Test on Detected Observations Only |
|------------------------------|--------|---|
| 5% Shapiro Wilk P Value | 0 | Data Not Normal at 5% Significance Level |
| Lilliefors Test Statistic | 0.317 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value | 0.0802 | Data Not Normal at 5% Significance Level |

Data Not Normal at 5% Significance Level

Kaplan Meier (KM) Background Statistics Assuming Normal Distribution

| KM Mean | 0.0155 | KM SD | 0.0245 |
|-----------------------|--------|-----------------------|--------|
| 95% UTL95% Coverage | 0.0607 | 95% KM UPL (t) | 0.0562 |
| 90% KM Percentile (z) | 0.047 | 95% KM Percentile (z) | 0.0559 |
| 99% KM Percentile (z) | 0.0726 | 95% KM USL | 0.0994 |

DL/2 Substitution Background Statistics Assuming Normal Distribution

| Mean | 0.016 | SD | 0.0243 |
|---------------------|--------|--------------------|--------|
| 95% UTL95% Coverage | 0.0607 | 95% UPL (t) | 0.0563 |
| 90% Percentile (z) | 0.0472 | 95% Percentile (z) | 0.056 |
| 99% Percentile (z) | 0.0726 | 95% USL | 0.0992 |

DL/2 is not a recommended method. DL/2 provided for comparisons and historical reasons

Gamma GOF Tests on Detected Observations Only

| A-D Test Statistic | 9.986 | Anderson-Darling GOF Test | |
|-----------------------|--------|---|--|
| 5% A-D Critical Value | 0.771 | Data Not Gamma Distributed at 5% Significance Lev | |
| K-S Test Statistic | 0.238 | Kolmogorov-Smirnov GOF | |
| 5% K-S Critical Value | 0.0851 | Data Not Gamma Distributed at 5% Significance Level | |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

| k hat (MLE) | 1.467 | 7 k star (bias corrected MLE) | |
|---------------------------|---|--------------------------------------|--------|
| Theta hat (MLE) | E) 0.0154 Theta star (bias corrected MLE) | | 0.0157 |
| nu hat (MLE) | (MLE) 360.8 nu star (bias corrected) | | 353.3 |
| MLE Mean (bias corrected) | Mean (bias corrected) 0.0226 | | |
| MLE Sd (bias corrected) | 0.0188 | 95% Percentile of Chisquare (2kstar) | 7.592 |

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

| The factor of the contract of | According to the second second | | 0.000 |
|---|--------------------------------|-------------|-----------|
| This is especially | irue when ine | Samble Size | is smail. |

| For gamma distributed detected data | a BTVs and UCLs may be computed a | using gamma distribution on KM estimates |
|-------------------------------------|-----------------------------------|--|
| | | |

| 0.0181 | Mean | 0.003 | Minimum |
|--------|---------------------------------|--------|--------------------------------------|
| 0.01 | Median | 0.222 | Maximum |
| 1.299 | CV | 0.0235 | SD |
| 1.729 | k star (bias corrected MLE) | 1.753 | k hat (MLE) |
| 0.0104 | Theta star (bias corrected MLE) | 0.0103 | Theta hat (MLE) |
| 664 | nu star (bias corrected) | 673.2 | nu hat (MLE) |
| 0.0137 | MLE Sd (bias corrected) | 0.0181 | MLE Mean (bias corrected) |
| 0.0364 | 90% Percentile | 8.596 | 95% Percentile of Chisquare (2kstar) |
| 0.064 | 99% Percentile | 0.0449 | 95% Percentile |

The following statistics are computed using Gamma ROS Statistics on Imputed Data $\label{eq:Gamma} % \begin{center} \begin{ce$

Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods

| | WH | HW | | WH | HW |
|---|--------|--------|-----------------------|-------|--------|
| 95% Approx. Gamma UTL with 95% Coverage | 0.0475 | 0.0463 | 95% Approx. Gamma UPL | 0.043 | 0.0417 |
| 95% Gamma USL | 0.1 | 0.103 | | | |

Estimates of Gamma Parameters using KM Estimates

| | | • | |
|---------------------------|----------|---------------------------|---------|
| Mean (KM) | 0.0155 | SD (KM) | 0.0245 |
| Variance (KM) 6 | .0197E-4 | SE of Mean (KM) | 0.00179 |
| k hat (KM) | 0.4 | k star (KM) | 0.397 |
| nu hat (KM) | 153.5 | nu star (KM) | 152.4 |
| theta hat (KM) | 0.0388 | theta star (KM) | 0.0391 |
| 80% gamma percentile (KM) | 0.025 | 90% gamma percentile (KM) | 0.0439 |
| 95% gamma percentile (KM) | 0.0646 | 99% gamma percentile (KM) | 0.117 |
| | | | |

The following statistics are computed using gamma distribution and KM estimates

Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods

| | WH | HW | | WH | HW |
|---|--------|--------|-----------------------|--------|--------|
| 95% Approx. Gamma UTL with 95% Coverage | 0.0536 | 0.0555 | 95% Approx. Gamma UPL | 0.0469 | 0.0479 |
| 95% KM Gamma Percentile | 0.0465 | 0.0474 | 95% Gamma USL | 0.139 | 0.165 |

Lognormal GOF Test on Detected Observations Only

| Shapiro Wilk Approximate Test Statistic 0.877 | Shapiro Wilk GOF Test |
|---|---|
| 5% Shapiro Wilk P Value 2.442E-15 | Data Not Lognormal at 5% Significance Level |
| Lilliefors Test Statistic 0.235 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value 0.0802 | Data Not Lognormal at 5% Significance Level |

Data Not Lognormal at 5% Significance Level

Background Lognormal ROS Statistics Assuming Lognormal Distribution Using Imputed Non-Detects

| Mean in Original Scale | 0.0157 | Mean in Log Scale | -4.772 |
|-----------------------------------|--------|-------------------------|--------|
| SD in Original Scale | 0.0245 | SD in Log Scale | 1.07 |
| 95% UTL95% Coverage | 0.0607 | 95% BCA UTL95% Coverage | 0.09 |
| 95% Bootstrap (%) UTL95% Coverage | 0.09 | 95% UPL (t) | 0.0499 |
| 90% Percentile (z) | 0.0334 | 95% Percentile (z) | 0.0492 |
| 99% Percentile (z) | 0.102 | 95% USL | 0.329 |

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

| KM Mean of Logged Data | -4.898 | 95% KM UTL (Lognormal)95% Coverage | 0.0749 |
|---------------------------------|--------|------------------------------------|--------|
| KM SD of Logged Data | 1.253 | 95% KM UPL (Lognormal) | 0.0595 |
| 95% KM Percentile Lognormal (z) | 0.0586 | 95% KM USL (Lognormal) | 0.542 |

Background DL/2 Statistics Assuming Lognormal Distribution

| Mean in Original Scale | 0.016 | Mean in Log Scale | -4.672 |
|------------------------|--------|--------------------|--------|
| SD in Original Scale | 0.0243 | SD in Log Scale | 0.959 |
| 95% UTL95% Coverage | 0.0546 | 95% UPL (t) | 0.0458 |
| 90% Percentile (z) | 0.0319 | 95% Percentile (z) | 0.0452 |
| 99% Percentile (z) | 0.087 | 95% USL | 0.248 |

DL/2 is not a Recommended Method. DL/2 provided for comparisons and historical reasons.

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for BTVs(no distinction made between detects and nondetects)

| 0.09 | 95% UTL with 95% Coverage | 187 | Order of Statistic, r | |
|-------|---|-------|--|--|
| 0.922 | Approximate Actual Confidence Coefficient achieved by UTL | 1.64 | Approx, f used to compute achieved CC | |
| 0.083 | 95% UPL | 208 | Approximate Sample Size needed to achieve specified CC | |
| 0.123 | 95% KM Chebyshev UPL | 0.222 | 95% USL | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (mid chinle non-mixing zone sulfate)

General Statistics

| Total Number of Observations | 192 | Number of Distinct Observations | 153 |
|------------------------------|-------|---------------------------------|-------|
| Minimum | 319 | First Quartile | 523.8 |
| Second Largest | 1141 | Median | 667 |
| Maximum | 1430 | Third Quartile | 772 |
| Mean | 654.4 | SD | 162.2 |
| Coefficient of Variation | 0.248 | Skewness | 0.474 |
| Mean of logged Data | 6.452 | SD of logged Data | 0.256 |
| | | | |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.84 d2max (for USL) 3.42

Normal GOF Test

| Normal GOF Test | 0.958 | Shapiro Wilk Test Statistic |
|--|-----------|------------------------------|
| Data Not Normal at 5% Significance Lev | 1.2989E-4 | 5% Shapiro Wilk P Value |
| Lilliefors GOF Test | 0.0805 | Lilliefors Test Statistic |
| Data Not Normal at 5% Significance Lev | 0.0644 | 5% Lilliefors Critical Value |

Data Not Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

| 95% UTL with 95% Coverage | 952.9 | 90% Percentile (z) | 862.3 |
|---------------------------|-------|--------------------|-------|
| 95% UPL (t) | 923.2 | 95% Percentile (z) | 921.2 |
| 95% USL | 1209 | 99% Percentile (z) | 1032 |

Gamma GOF Test

| Anderson-Darling Gamma GOF Test | 2.363 | A-D Test Statistic |
|---|--------|-----------------------|
| Data Not Gamma Distributed at 5% Significance Level | 0.751 | 5% A-D Critical Value |
| Kolmogorov-Smirnov Gamma GOF Test | 0.102 | K-S Test Statistic |
| Data Not Gamma Distributed at 5% Significance Level | 0.0656 | 5% K-S Critical Value |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

| 15.76 | k star (bias corrected MLE) | 16.01 | k hat (MLE) |
|-------|---------------------------------|-------|---------------------------|
| 41.52 | Theta star (bias corrected MLE) | 40.88 | Theta hat (MLE) |
| 6052 | nu star (bias corrected) | 6147 | nu hat (MLE) |
| 164.8 | MLE Sd (bias corrected) | 654.4 | MLE Mean (bias corrected) |

Background Statistics Assuming Gamma Distribution

| 95% Wilson Hilferty (WH) Approx. Gamma UPL | 947.9 | 90% Percentile | 872.5 |
|--|-------|----------------|-------|
| 95% Hawkins Wixley (HW) Approx. Gamma UPL | 952.5 | 95% Percentile | 947 |
| 95% WH Approx. Gamma UTL with 95% Coverage | 986.8 | 99% Percentile | 1097 |
| 95% HW Approx. Gamma UTL with 95% Coverage | 993.1 | | |
| 95% WH USL | 1368 | 95% HW USL | 1400 |

Lognormal GOF Test

| Shapiro Wilk Lognormal GOF Test | Shapiro Wilk Test Statistic 0.956 |
|---|-------------------------------------|
| Data Not Lognormal at 5% Significance Level | 5% Shapiro Wilk P Value 6.9836E-5 |
| Lilliefors Lognormal GOF Test | Lilliefors Test Statistic 0.112 |
| Data Not Lognormal at 5% Significance Level | 5% Lilliefors Critical Value 0.0644 |

Data Not Lognormal at 5% Significance Level

Background Statistics assuming Lognormal Distribution

| 95% UTL with 95% Coverage | 1016 | 90% Percentile (z) | 880.3 |
|---------------------------|-------|--------------------|-------|
| 95% UPL (t) | 969.2 | 95% Percentile (z) | 966.1 |
| 95% USL | 1522 | 99% Percentile (z) | 1150 |

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for Background Threshold Values

| Order of Statistic, r | 187 | 95% UTL with 95% Coverage | 896 |
|--|-------|---|-------|
| Approx, f used to compute achieved CC | 1.64 | Approximate Actual Confidence Coefficient achieved by UTL | 0.922 |
| | | Approximate Sample Size needed to achieve specified CC | 208 |
| 95% Percentile Bootstrap UTL with 95% Coverage | 895.5 | 95% BCA Bootstrap UTL with 95% Coverage | 895.5 |
| 95% UPL | 867.1 | 90% Percentile | 819.8 |
| 90% Chebyshev UPL | 1142 | 95% Percentile | 857.2 |
| 95% Chebyshev UPL | 1363 | 99% Percentile | 1048 |
| 95% USL | 1430 | | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (mid chinle non-mixing zone total dissolved solids)

General Statistics

| Total Number of Observations | 187 | Number of Distinct Observations | 110 |
|------------------------------|-------|---------------------------------|--------|
| Minimum | 560 | First Quartile | 1114 |
| Second Largest | 1820 | Median | 1290 |
| Maximum | 1970 | Third Quartile | 1451 |
| Mean | 1273 | SD | 225.6 |
| Coefficient of Variation | 0.177 | Skewness | -0.224 |
| Mean of logged Data | 7.132 | SD of logged Data | 0.19 |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.843 d2max (for USL) 3.412

Normal GOF Test

| Shapiro Wilk Test Statistic | 0.979 | Normal GOF Test |
|-----------------------------|-------|---|
| 5% Shapiro Wilk P Value | 0.277 | Data appear Normal at 5% Significance Level |

Lilliefors Test Statistic 0.0762 Lilliefors GOF Test

5% Lilliefors Critical Value 0.0652 Data Not Normal at 5% Significance Level

Data appear Approximate Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

| 95% UTL with 95% Coverage | 1688 | 90% Percentile (z) | 1562 |
|---------------------------|------|--------------------|------|
| 95% UPL (t) | 1647 | 95% Percentile (z) | 1644 |
| 95% USL | 2043 | 99% Percentile (z) | 1798 |

Gamma GOF Test

| Anderson-Darling Gamma GOF Test | 1.907 | A-D Test Statistic |
|---|--------|-----------------------|
| Data Not Gamma Distributed at 5% Significance Level | 0.751 | 5% A-D Critical Value |
| Kolmogorov-Smirnov Gamma GOF Test | 0.083 | K-S Test Statistic |
| Data Not Gamma Distributed at 5% Significance Level | 0.0668 | 5% K-S Critical Value |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

| 29.09 | k star (bias corrected MLE) | 29.57 | k hat (MLE) |
|-------|---------------------------------|-------|---------------------------|
| 43.74 | Theta star (bias corrected MLE) | 43.05 | Theta hat (MLE) |
| 10881 | nu star (bias corrected) | 11057 | nu hat (MLE) |
| 235.9 | MLE Sd (bias corrected) | 1273 | MLE Mean (bias corrected) |

Background Statistics Assuming Gamma Distribution

| 95% Wilson Hilferty (WH) Approx. Gamma UPL | 1685 | 90% Percentile | 1583 |
|---|------|----------------|------|
| 95% Hawkins Wixley (HW) Approx. Gamma UPL | 1692 | 95% Percentile | 1684 |
| 95% WH Approx. Gamma UTL with 95% Coverage | 1738 | 99% Percentile | 1885 |
| 95% HW Approx. Gamma UTL with $$ 95% Coverage | 1747 | | |
| 95% WH USL | 2232 | 95% HW USL | 2266 |

Lognormal GOF Test

| | • | |
|---|------------------------|------------------------------|
| Shapiro Wilk Lognormal GOF Test | Test Statistic 0.949 | Shapiro Wilk Test Statistic |
| Data Not Lognormal at 5% Significance Level | Wilk P Value 2.3611E-6 | 5% Shapiro Wilk P Value 2 |
| Lilliefors Lognormal GOF Test | Test Statistic 0.0885 | Lilliefors Test Statistic |
| Data Not Lognormal at 5% Significance Level | Critical Value 0.0652 | 5% Lilliefors Critical Value |

Data Not Lognormal at 5% Significance Level

Background Statistics assuming Lognormal Distribution

| 95% UTL with 95% Coverage | 1776 | 90% Percentile (z) | 1596 |
|---------------------------|------|--------------------|------|
| 95% UPL (t) | 1714 | 95% Percentile (z) | 1710 |
| 95% USL | 2393 | 99% Percentile (z) | 1947 |

Nonparametric Distribution Free Background Statistics

Data appear Approximate Normal at 5% Significance Level

Nonparametric Upper Limits for Background Threshold Values

| Order of Statistic, r | 182 | 95% UTL with 95% Coverage | 1636 |
|--|-------|---|------|
| Approx, f used to compute achieved CC | 1.596 | Approximate Actual Confidence Coefficient achieved by UTL | 0.91 |
| | | Approximate Sample Size needed to achieve specified CC | 208 |
| 95% Percentile Bootstrap UTL with 95% Coverage | 1625 | 95% BCA Bootstrap UTL with 95% Coverage | 1616 |
| 95% UPL | 1560 | 90% Percentile | 1514 |
| 90% Chebyshev UPL | 1951 | 95% Percentile | 1557 |
| 95% Chebyshev UPL | 2259 | 99% Percentile | 1786 |
| 95% USL | 1970 | | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (mid chinle non-mixing zone uranium)

| A | 01-11-11 |
|---------|------------|
| Generai | Statistics |

| | - 14.00 | | |
|---------|--------------------------------|-----------|---------------------------------|
| 0 | Number of Missing Observations | 190 | Total Number of Observations |
| | | 56 | Number of Distinct Observations |
| 60 | Number of Non-Detects | 130 | Number of Detects |
| 2 | Number of Distinct Non-Detects | 56 | Number of Distinct Detects |
| 0.00848 | Minimum Non-Detect | 0.00339 | Minimum Detect |
| 0.01 | Maximum Non-Detect | 0.136 | Maximum Detect |
| 31.58% | Percent Non-Detects | 5.5861E-4 | Variance Detected |
| 0.0236 | SD Detected | 0.0259 | Mean Detected |
| 0.724 | SD of Detected Logged Data | -3.942 | Mean of Detected Logged Data |
| | | | |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.841 d2max (for USL) 3.417

Normal GOF Test on Detects Only

| Shapiro Wilk Test Statistic | 0.719 | Normal GOF Test on Detected Observations Only |
|------------------------------|--------|---|
| 5% Shapiro Wilk P Value | 0 | Data Not Normal at 5% Significance Level |
| Lilliefors Test Statistic | 0.268 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value | 0.0781 | Data Not Normal at 5% Significance Level |

Data Not Normal at 5% Significance Level

Kaplan Meier (KM) Background Statistics Assuming Normal Distribution

| KM Mean | 0.0195 | KM SD | 0.0217 |
|---------------------|--------|----------------|--------|
| 95% UTL95% Coverage | 0.0594 | 95% KM UPL (t) | 0.0554 |

| 90% KM Percentile (z) | 0.0473 | 95% KM Percentile (z) | 0.0551 |
|-----------------------|--------|-----------------------|--------|
| 99% KM Percentile (z) | 0.0699 | 95% KM USL | 0.0935 |

DL/2 Substitution Background Statistics Assuming Normal Distribution

| Mean | 0.0192 | SD | 0.0219 |
|---------------------|--------|--------------------|--------|
| 95% UTL95% Coverage | 0.0595 | 95% UPL (t) | 0.0555 |
| 90% Percentile (z) | 0.0472 | 95% Percentile (z) | 0.0552 |
| 99% Percentile (z) | 0.0701 | 95% USL | 0.094 |

DL/2 is not a recommended method. DL/2 provided for comparisons and historical reasons

Gamma GOF Tests on Detected Observations Only

| Anderson-Darling GOF Test | 5.37 | A-D Test Statistic |
|---|--------|-----------------------|
| Data Not Gamma Distributed at 5% Significance Level | 0.767 | 5% A-D Critical Value |
| Kolmogorov-Smirnov GOF | 0.205 | K-S Test Statistic |
| Data Not Gamma Distributed at 5% Significance Level | 0.0829 | 5% K-S Critical Value |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

| 1.848 | k star (bias corrected MLE) | 1.887 | k hat (MLE) |
|-------|--------------------------------------|--------|---------------------------|
| 0.014 | Theta star (bias corrected MLE) | 0.0137 | Theta hat (MLE) |
| 480.6 | nu star (bias corrected) | 490.5 | nu hat (MLE) |
| | | 0.0259 | MLE Mean (bias corrected) |
| 8.991 | 95% Percentile of Chisquare (2kstar) | 0.019 | MLE Sd (bias corrected) |

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and $\ensuremath{\mathsf{BTVs}}$

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

| Minimum | 0.00339 | Mean | 0.0209 |
|--------------------------------------|---------|---------------------------------|--------|
| Maximum | 0.136 | Median | 0.013 |
| SD | 0.0209 | CV | 1.001 |
| k hat (MLE) | 1.924 | k star (bias corrected MLE) | 1.897 |
| Theta hat (MLE) | 0.0108 | Theta star (bias corrected MLE) | 0.011 |
| nu hat (MLE) | 731 | nu star (bias corrected) | 720.8 |
| MLE Mean (bias corrected) | 0.0209 | MLE Sd (bias corrected) | 0.0152 |
| 95% Percentile of Chisquare (2kstar) | 9.151 | 90% Percentile | 0.0411 |
| 95% Percentile | 0.0503 | 99% Percentile | 0.0709 |

The following statistics are computed using Gamma ROS Statistics on Imputed Data

Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods

| | WH | HW | | WH | HW |
|---|--------|-------|-----------------------|--------|--------|
| 95% Approx. Gamma UTL with 95% Coverage | 0.0543 | 0.054 | 95% Approx. Gamma UPL | 0.0492 | 0.0488 |
| 95% Gamma USL | 0.112 | 0.119 | | | |

Estimates of Gamma Parameters using KM Estimates

| Mean (KM) | 0.0195 | SD (KM) | 0.0217 |
|----------------|-----------|-----------------|---------|
| Variance (KM) | 4.6888E-4 | SE of Mean (KM) | 0.00159 |
| k hat (KM) | 0.811 | k star (KM) | 0.802 |
| nu hat (KM) | 308.3 | nu star (KM) | 304.8 |
| theta hat (KM) | 0.024 | theta star (KM) | 0.0243 |

| 80% gamma percentile (KM) | 0.0319 | 90% gamma percentile (KM) | 0.0474 |
|---------------------------|--------|---------------------------|--------|
| 95% gamma percentile (KM) | 0.0632 | 99% gamma percentile (KM) | 0.101 |

The following statistics are computed using gamma distribution and KM estimates Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods

| | WH | HW | | WH | HW |
|---|--------|--------|-----------------------|--------|--------|
| 95% Approx. Gamma UTL with 95% Coverage | 0.0575 | 0.0584 | 95% Approx. Gamma UPL | 0.0515 | 0.0518 |
| 95% KM Gamma Percentile | 0.0511 | 0.0514 | 95% Gamma USL | 0.13 | 0.145 |

Lognormal GOF Test on Detected Observations Only

| Shapiro Wilk GOF Test | Shapiro Wilk Approximate Test Statistic 0.943 |
|---|---|
| Data Not Lognormal at 5% Significance Level | 5% Shapiro Wilk P Value 3.8228E-5 |
| Lilliefors GOF Test | Lilliefors Test Statistic 0.153 |
| Data Not Lognormal at 5% Significance Level | 5% Lilliefors Critical Value 0.0781 |

Data Not Lognormal at 5% Significance Level

Background Lognormal ROS Statistics Assuming Lognormal Distribution Using Imputed Non-Detects

| Mean in Original Scale | 0.0193 | Mean in Log Scale | -4.4 |
|-----------------------------------|--------|-------------------------|--------|
| SD in Original Scale | 0.0218 | SD in Log Scale | 0.942 |
| 95% UTL95% Coverage | 0.0696 | 95% BCA UTL95% Coverage | 0.0678 |
| 95% Bootstrap (%) UTL95% Coverage | 0.0762 | 95% UPL (t) | 0.0585 |
| 90% Percentile (z) | 0.0411 | 95% Percentile (z) | 0.0578 |
| 99% Percentile (z) | 0.11 | 95% USL | 0.307 |

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

| KM Mean of Logged Data | -4.354 | 95% KM UTL (Lognormal)95% Coverage | 0.0649 |
|---------------------------------|--------|------------------------------------|--------|
| KM SD of Logged Data | 0.88 | 95% KM UPL (Lognormal) | 0.0552 |
| 95% KM Percentile Lognormal (z) | 0.0546 | 95% KM USL (Lognormal) | 0.26 |

Background DL/2 Statistics Assuming Lognormal Distribution

| Mean in Original Scale | 0.0192 | Mean in Log Scale | -4.398 |
|------------------------|--------|--------------------|--------|
| SD in Original Scale | 0.0219 | SD in Log Scale | 0.902 |
| 95% UTL95% Coverage | 0.0647 | 95% UPL (t) | 0.0548 |
| 90% Percentile (z) | 0.0391 | 95% Percentile (z) | 0.0542 |
| 99% Percentile (z) | 0.1 | 95% USL | 0.268 |

DL/2 is not a Recommended Method. DL/2 provided for comparisons and historical reasons.

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for BTVs(no distinction made between detects and nondetects)

| Order of Statistic, r | 185 | 95% UTL with95% Coverage | 0.0763 |
|--|-------|---|--------|
| Approx, f used to compute achieved CC | 1.623 | Approximate Actual Confidence Coefficient achieved by UTL | 0.917 |
| Approximate Sample Size needed to achieve specified CC | 208 | 95% UPL | 0.0684 |
| 95% USL | 0.136 | 95% KM Chebyshev UPL | 0.114 |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (upper chinle non-mixing zone chlorine)

General Statistics

| Total Number of Observations | 127 | Number of Distinct Observations | 79 |
|------------------------------|-------|---------------------------------|-------|
| Minimum | 21 | First Quartile | 43 |
| Second Largest | 525 | Median | 57 |
| Maximum | 540 | Third Quartile | 217 |
| Mean | 142.3 | SD | 133.9 |
| Coefficient of Variation | 0.94 | Skewness | 1.233 |
| Mean of logged Data | 4.533 | SD of logged Data | 0.922 |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.889 d2max (for USL) 3.289

Normal GOF Test

| Shapiro Wilk Test Statistic | 0.785 | Normal GOF Test |
|------------------------------|-------|--|
| 5% Shapiro Wilk P Value | 0 | Data Not Normal at 5% Significance Level |
| Lilliefors Test Statistic | 0.242 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value | 0.079 | Data Not Normal at 5% Significance Level |

Data Not Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

| 95% UTL with 95% Coverage | 395.2 | 90% Percentile (z) | 313.9 |
|---------------------------|-------|--------------------|-------|
| 95% UPL (t) | 365 | 95% Percentile (z) | 362.5 |
| 95% USL | 582.6 | 99% Percentile (z) | 453.7 |

Gamma GOF Test

| Anderson-Darling Gamma GOF Test | 6.869 | A-D Test Statistic |
|---|--------|-----------------------|
| Data Not Gamma Distributed at 5% Significance Level | 0.775 | 5% A-D Critical Value |
| Kolmogorov-Smirnov Gamma GOF Test | 0.231 | K-S Test Statistic |
| Data Not Gamma Distributed at 5% Significance Level | 0.0844 | 5% K-S Critical Value |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

| k hat (MLE) | 1.319 | k star (bias corrected MLE) | 1.293 |
|---------------------------|-------|---------------------------------|-------|
| Theta hat (MLE) | 108 | Theta star (bias corrected MLE) | 110.1 |
| nu hat (MLE) | 334.9 | nu star (bias corrected) | 328.3 |
| MLE Mean (bias corrected) | 142.3 | MLE Sd (bias corrected) | 125.2 |

Background Statistics Assuming Gamma Distribution

| 95% Wilson Hilferty (WH) Approx. Gamr | na UPL 386.3 | 90% Percentile | 307.6 |
|---------------------------------------|---------------|----------------|-------|
| 95% Hawkins Wixley (HW) Approx. Gamr | na UPL 393.8 | 95% Percentile | 389.9 |
| 95% WH Approx. Gamma UTL with 95% Co | overage 443.4 | 99% Percentile | 577.7 |
| 95% HW Approx. Gamma UTL with 95% Co | overage 458 | | |
| 95% V | /H USI 927 7 | 95% HW USI | 1048 |

Lognormal GOF Test

| Shapiro Wilk Test Statistic | 0.865 | Shapiro Wilk Lognormal GOF Test |
|-----------------------------|-------|---|
| 5% Shapiro Wilk P Value | 0 | Data Not Lognormal at 5% Significance Level |
| Lilliefors Test Statistic | 0.213 | Lilliefors Lognormal GOF Test |

5% Lilliefors Critical Value 0.079 Data Not Lognormal at 5% Significance Level

Data Not Lognormal at 5% Significance Level

Background Statistics assuming Lognormal Distribution

| 95% UTL with 95% Coverage | 530.8 | 90% Percentile (z) | 303.2 |
|---------------------------|-------|--------------------|-------|
| 95% UPL (t) | 431.2 | 95% Percentile (z) | 423.9 |
| 95% USL | 1929 | 99% Percentile (z) | 794.3 |

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for Background Threshold Values

| Order of Statistic, r | 124 | 95% UTL with 95% Coverage | 489 |
|--|-------|---|-------|
| Approx, f used to compute achieved CC | 1.632 | Approximate Actual Confidence Coefficient achieved by UTL | 0.884 |
| | | Approximate Sample Size needed to achieve specified CC | 153 |
| 95% Percentile Bootstrap UTL with 95% Coverage | 489 | 95% BCA Bootstrap UTL with 95% Coverage | 484.8 |
| 95% UPL | 422.8 | 90% Percentile | 360.6 |
| 90% Chebyshev UPL | 545.5 | 95% Percentile | 411.7 |
| 95% Chebyshev UPL | 728.1 | 99% Percentile | 517.5 |
| 95% USL | 540 | | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (upper chinle non-mixing zone selenium)

| General | Statistics |
|---------|-------------------|
|---------|-------------------|

| 0 | Number of Missing Observations | 165 | Total Number of Observations |
|--------|--------------------------------|---------|---------------------------------|
| | | 37 | Number of Distinct Observations |
| 74 | Number of Non-Detects | 91 | Number of Detects |
| 7 | Number of Distinct Non-Detects | 32 | Number of Distinct Detects |
| 0.001 | Minimum Non-Detect | 0.003 | Minimum Detect |
| 0.0125 | Maximum Non-Detect | 0.244 | Maximum Detect |
| 44.85% | Percent Non-Detects | 0.00136 | Variance Detected |
| 0.0369 | SD Detected | 0.0279 | Mean Detected |
| 0.816 | SD of Detected Logged Data | -3.995 | Mean of Detected Logged Data |
| | | | |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.857 d2max (for USL) 3.373

Normal GOF Test on Detects Only

| Shapiro Wilk Test Statistic | 0.564 | Normal GOF Test on Detected Observations Only |
|------------------------------|--------|---|
| 5% Shapiro Wilk P Value | 0 | Data Not Normal at 5% Significance Level |
| Lilliefors Test Statistic | 0.291 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value | 0.0931 | Data Not Normal at 5% Significance Level |

Data Not Normal at 5% Significance Level

Kaplan Meier (KM) Background Statistics Assuming Normal Distribution

| 0.0162 | KM SD | 0.0302 |
|--------|-----------------------|--|
| 0.0723 | 95% KM UPL (t) | 0.0663 |
| 0.0549 | 95% KM Percentile (z) | 0.0659 |
| 0.0865 | 95% KM USL | 0.118 |
| | 0.0723 0.0549 | 0.0723 95% KM UPL (t) 0.0549 95% KM Percentile (z) |

DL/2 Substitution Background Statistics Assuming Normal Distribution

| SD 0.0299 | SD | 0.0169 | Mean |
|------------|--------------------|--------|---------------------|
| (t) 0.0666 | 95% UPL (t) | 0.0725 | 95% UTL95% Coverage |
| (z) 0.0662 | 95% Percentile (z) | 0.0553 | 90% Percentile (z) |
| SL 0.118 | 95% USL | 0.0866 | 99% Percentile (z) |

DL/2 is not a recommended method. DL/2 provided for comparisons and historical reasons

Gamma GOF Tests on Detected Observations Only

| Anderson-Darling GOF Test | 5.887 | A-D Test Statistic |
|---|--------|-----------------------|
| Data Not Gamma Distributed at 5% Significance Lev | 0.775 | 5% A-D Critical Value |
| Kolmogorov-Smirnov GOF | 0.2 | K-S Test Statistic |
| Data Not Gamma Distributed at 5% Significance Lev | 0.0958 | 5% K-S Critical Value |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

| k hat (MLE) | 1.34 | k star (bias corrected MLE) | 1.303 |
|---------------------------|--------|--------------------------------------|--------|
| Theta hat (MLE) | 0.0208 | Theta star (bias corrected MLE) | 0.0214 |
| nu hat (MLE) | 243.9 | nu star (bias corrected) | 237.2 |
| MLE Mean (bias corrected) | 0.0279 | | |
| MLE Sd (bias corrected) | 0.0245 | 95% Percentile of Chisquare (2kstar) | 7.121 |

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

| Minimum | 0.003 | Mean | 0.0199 |
|--------------------------------------|--------|---------------------------------|--------|
| Maximum | 0.244 | Median | 0.01 |
| SD | 0.0287 | CV | 1.445 |
| k hat (MLE) | 1.569 | k star (bias corrected MLE) | 1.545 |
| Theta hat (MLE) | 0.0127 | Theta star (bias corrected MLE) | 0.0129 |
| nu hat (MLE) | 517.8 | nu star (bias corrected) | 509.7 |
| MLE Mean (bias corrected) | 0.0199 | MLE Sd (bias corrected) | 0.016 |
| 95% Percentile of Chisquare (2kstar) | 7.969 | 90% Percentile | 0.0412 |
| 95% Percentile | 0.0513 | 99% Percentile | 0.0742 |

The following statistics are computed using Gamma ROS Statistics on Imputed Data

Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods

| | WH | HW | | WH | HW |
|---|--------|--------|-----------------------|--------|-------|
| 95% Approx. Gamma UTL with 95% Coverage | 0.0544 | 0.0528 | 95% Approx. Gamma UPL | 0.0487 | 0.047 |
| 95% Gamma USL | 0.115 | 0.118 | | | |

Estimates of Gamma Parameters using KM Estimates

| 0.0302 | SD (KM) | 0.0162 | Mean (KM) |
|---------|-----------------|-----------|---------------|
| 0.00237 | SE of Mean (KM) |).1285E-4 | Variance (KM) |
| 0.285 | k star (KM) | 0.287 | k hat (KM) |

| nu hat (KM) | 94.56 | nu star (KM) | 94.17 |
|---------------------------|--------|---------------------------|--------|
| theta hat (KM) | 0.0564 | theta star (KM) | 0.0567 |
| 80% gamma percentile (KM) | 0.0245 | 90% gamma percentile (KM) | 0.048 |
| 95% gamma percentile (KM) | 0.0752 | 99% gamma percentile (KM) | 0.146 |

The following statistics are computed using gamma distribution and KM estimates

Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods

| | WH | HW | | WH | HW |
|---|--------|--------|-----------------------|--------|-------|
| 95% Approx. Gamma UTL with 95% Coverage | 0.0621 | 0.0647 | 95% Approx. Gamma UPL | 0.0529 | 0.054 |
| 95% KM Gamma Percentile | 0.0523 | 0.0533 | 95% Gamma USL | 0.171 | 0.209 |

Lognormal GOF Test on Detected Observations Only

| Shapiro Wilk Approximate Test Statistic 0.904 | Shapiro Wilk GOF Test |
|---|---|
| 5% Shapiro Wilk P Value 1.4746E-7 | Data Not Lognormal at 5% Significance Level |
| Lilliefors Test Statistic 0.212 | Lilliefors GOF Test |

Data Not Lognormal at 5% Significance Level

5% Lilliefors Critical Value 0.0931

Background Lognormal ROS Statistics Assuming Lognormal Distribution Using Imputed Non-Detects

| Mean in Original Scale | 0.0167 | Mean in Log Scale | -4.897 |
|-----------------------------------|--------|-------------------------|--------|
| SD in Original Scale | 0.03 | SD in Log Scale | 1.254 |
| 95% UTL95% Coverage | 0.0767 | 95% BCA UTL95% Coverage | 0.0976 |
| 95% Bootstrap (%) UTL95% Coverage | 0.099 | 95% UPL (t) | 0.0598 |
| 90% Percentile (z) | 0.0373 | 95% Percentile (z) | 0.0588 |
| 99% Percentile (z) | 0.138 | 95% USL | 0.513 |

Data Not Lognormal at 5% Significance Level

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

| KM Mean of Logged Data | -5.179 | 95% KM UTL (Lognormal)95% Coverage | 0.0911 |
|---------------------------------|--------|------------------------------------|--------|
| KM SD of Logged Data | 1.499 | 95% KM UPL (Lognormal) | 0.0678 |
| 95% KM Percentile Lognormal (z) | 0.0663 | 95% KM USL (Lognormal) | 0.884 |

Background DL/2 Statistics Assuming Lognormal Distribution

| Mean in Original Scale | 0.0169 | Mean in Log Scale | -4.81 |
|------------------------|--------|--------------------|--------|
| SD in Original Scale | 0.0299 | SD in Log Scale | 1.157 |
| 95% UTL95% Coverage | 0.0698 | 95% UPL (t) | 0.0555 |
| 90% Percentile (z) | 0.0359 | 95% Percentile (z) | 0.0546 |
| 99% Percentile (z) | 0.12 | 95% USL | 0.403 |

DL/2 is not a Recommended Method. DL/2 provided for comparisons and historical reasons.

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for BTVs(no distinction made between detects and nondetects)

| Order of Statistic, r | 161 | 95% UTL with 95% Coverage | 0.102 |
|--|-------|---|--------|
| Approx, f used to compute achieved CC | 1.695 | Approximate Actual Confidence Coefficient achieved by UTL | 0.919 |
| Approximate Sample Size needed to achieve specified CC | 181 | 95% UPL | 0.0665 |
| 95% USL | 0.244 | 95% KM Chebyshev UPL | 0.148 |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (upper chinle non-mixing zone sulfate)

General Statistics

| Total Number of Observations | 167 | Number of Distinct Observations | 130 |
|------------------------------|-------|---------------------------------|--------|
| Minimum | 535 | First Quartile | 699 |
| Second Largest | 973 | Median | 743.5 |
| Maximum | 998 | Third Quartile | 794 |
| Mean | 747.4 | SD | 84.36 |
| Coefficient of Variation | 0.113 | Skewness | 0.0917 |
| Mean of logged Data | 6.61 | SD of logged Data | 0.114 |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.855 d2max (for USL) 3.377

Normal GOF Test

| Normal GOF Test | 0.982 | Shapiro Wilk Test Statistic |
|---|--------|------------------------------|
| Data appear Normal at 5% Significance Level | 0.483 | 5% Shapiro Wilk P Value |
| Lilliefors GOF Test | 0.0439 | Lilliefors Test Statistic |
| Data appear Normal at 5% Significance Level | 0.069 | 5% Lilliefors Critical Value |

Data appear Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

| 95% UTL with 95% Coverage | 903.9 | 90% Percentile (z) | 855.5 |
|---------------------------|-------|--------------------|-------|
| 95% UPL (t) | 887.4 | 95% Percentile (z) | 886.2 |
| 95% USL | 1032 | 99% Percentile (z) | 943.7 |

Gamma GOF Test

| A-D Test Statistic | 0.554 | Anderson-Darling Gamma GOF Test |
|-----------------------|--------|---|
| 5% A-D Critical Value | 0.75 | Detected data appear Gamma Distributed at 5% Significance Level |
| K-S Test Statistic | 0.0539 | Kolmogorov-Smirnov Gamma GOF Test |
| 5% K-S Critical Value | 0.0719 | Detected data appear Gamma Distributed at 5% Significance Level |

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

| 76.58 | k star (bias corrected MLE) | 77.98 | k hat (MLE) |
|-------|---------------------------------|-------|---------------------------|
| 9.76 | Theta star (bias corrected MLE) | 9.585 | Theta hat (MLE) |
| 25577 | nu star (bias corrected) | 26044 | nu hat (MLE) |
| 85.41 | MLE Sd (bias corrected) | 747.4 | MLE Mean (bias corrected) |

Background Statistics Assuming Gamma Distribution

| 95% Wilson Hilferty (WH) Approx. Gamma UPL | 893.7 | 90% Percentile | 858.7 |
|--|-------|----------------|-------|
| 95% Hawkins Wixley (HW) Approx. Gamma UPL | 894.6 | 95% Percentile | 893.2 |
| 95% WH Approx. Gamma UTL with 95% Coverage | 912.6 | 99% Percentile | 960.3 |
| 95% HW Approx. Gamma UTL with 95% Coverage | 913.9 | | |
| 95% WH USL | 1068 | 95% HW USL | 1074 |

Lognormal GOF Test

Shapiro Wilk Test Statistic 0.977 **Shapiro Wilk Lognormal GOF Test**

Attachment 7: Statistical Calculations

| 5% Shapiro Wilk P Value | 0.2 | Data appear Lognormal at 5% Significance Level |
|---------------------------|--------|--|
| Lilliefors Test Statistic | 0.0614 | Lilliefors Lognormal GOF Test |

5% Lilliefors Critical Value 0.069 Data appear Lognormal at 5% Significance Level

Data appear Lognormal at 5% Significance Level

Background Statistics assuming Lognormal Distribution

| 95% UTL with 95% Coverage | 918.1 | 90% Percentile (z) | 859.8 |
|---------------------------|-------|--------------------|-------|
| 95% UPL (t) | 897.8 | 95% Percentile (z) | 896.3 |
| 95% USL | 1093 | 99% Percentile (z) | 968.9 |

Nonparametric Distribution Free Background Statistics

Data appear Normal at 5% Significance Level

Nonparametric Upper Limits for Background Threshold Values

| Order of Statistic, r | 163 | 95% UTL with 95% Coverage | 937 |
|--|-------|---|-------|
| Approx, f used to compute achieved CC | 1.716 | Approximate Actual Confidence Coefficient achieved by UTL | 0.924 |
| | | Approximate Sample Size needed to achieve specified CC | 181 |
| 95% Percentile Bootstrap UTL with 95% Coverage | 932.8 | 95% BCA Bootstrap UTL with 95% Coverage | 930.4 |
| 95% UPL | 900.4 | 90% Percentile | 844 |
| 90% Chebyshev UPL | 1001 | 95% Percentile | 883 |
| 95% Chebyshev UPL | 1116 | 99% Percentile | 952.5 |
| 95% USL | 998 | | |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20.

Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (upper chinle non-mixing zone total dissolved solids)

General Statistics

| Total Number of Observations | 166 | Number of Distinct Observations | 98 |
|------------------------------|-------|---------------------------------|-------|
| Minimum | 920 | First Quartile | 1463 |
| Second Largest | 2140 | Median | 1550 |
| Maximum | 2160 | Third Quartile | 1779 |
| Mean | 1613 | SD | 221.7 |
| Coefficient of Variation | 0.137 | Skewness | 0.532 |
| Mean of logged Data | 7.377 | SD of logged Data | 0.136 |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.856 d2max (for USL) 3.375

Normal GOF Test

Shapiro Wilk Test Statistic 0.932 Normal GOF Test

5% Shapiro Wilk P Value 2.3328E-9 Data Not Normal at 5% Significance Level

Lilliefors Test Statistic 0.173 Lilliefors GOF Test

5% Lilliefors Critical Value 0.0692 Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Background Statistics Assuming Normal Distribution

| 95% UTL with 95% Coverage | 2024 | 90% Percentile (z) | 1897 |
|---------------------------|------|--------------------|------|
| 95% UPL (t) | 1981 | 95% Percentile (z) | 1977 |
| 95% USL | 2361 | 99% Percentile (z) | 2129 |

Gamma GOF Test

| Anderson-Darling Gamma GOF Test | 3.824 | A-D Test Statistic |
|---|--------|-----------------------|
| Data Not Gamma Distributed at 5% Significance Level | 0.75 | 5% A-D Critical Value |
| Kolmogorov-Smirnov Gamma GOF Test | 0.157 | K-S Test Statistic |
| Data Not Gamma Distributed at 5% Significance Level | 0.0722 | 5% K-S Critical Value |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

| 53.51 | k star (bias corrected MLE) | 54.49 | k hat (MLE) |
|-------|---------------------------------|-------|---------------------------|
| 30.14 | Theta star (bias corrected MLE) | 29.6 | Theta hat (MLE) |
| 17766 | nu star (bias corrected) | 18091 | nu hat (MLE) |
| 220.5 | MLE Sd (bias corrected) | 1613 | MLE Mean (bias corrected) |

Background Statistics Assuming Gamma Distribution

| 95% Wilson Hilferty (WH) Approx. Gamma UPL | 1993 | 90% Percentile | 1901 |
|--|------|----------------|------|
| 95% Hawkins Wixley (HW) Approx. Gamma UPL | 1995 | 95% Percentile | 1992 |
| 95% WH Approx. Gamma UTL with 95% Coverage | 2043 | 99% Percentile | 2170 |
| 95% HW Approx. Gamma UTL with 95% Coverage | 2046 | | |
| 95% WH USL | 2458 | 95% HW USL | 2474 |

Lognormal GOF Test

| Shapiro Wilk Lognormal GOF Test | 0.948 | Shapiro Wilk Test Statistic |
|---|-----------|------------------------------|
| Data Not Lognormal at 5% Significance Level | 3.6352E-6 | 5% Shapiro Wilk P Value 8 |
| Lilliefors Lognormal GOF Test | 0.149 | Lilliefors Test Statistic |
| Data Not Lognormal at 5% Significance Level | 0.0692 | 5% Lilliefors Critical Value |

Data Not Lognormal at 5% Significance Level

Background Statistics assuming Lognormal Distribution

| 95% UTL with 95% Coverage | 2056 | 90% Percentile (z) | 1902 |
|---------------------------|------|--------------------|------|
| 95% UPL (t) | 2002 | 95% Percentile (z) | 1998 |
| 95% USI | 2527 | 99% Percentile (z) | 2192 |

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for Background Threshold Values

| 2130 | 95% UTL with 95% Coverage | 162 | Order of Statistic, r |
|-------|---|-------|--|
| 0.922 | Approximate Actual Confidence Coefficient achieved by UTL | 1.705 | Approx, f used to compute achieved CC |
| 181 | Approximate Sample Size needed to achieve specified CC | | |
| 2080 | 95% BCA Bootstrap UTL with 95% Coverage | 2120 | 95% Percentile Bootstrap UTL with 95% Coverage |
| 1931 | 90% Percentile | 2018 | 95% UPL |
| 2010 | 95% Percentile | 2280 | 90% Chebyshev UPL |
| 2140 | 99% Percentile | 2582 | 95% Chebyshev UPL |
| | | 2160 | 95% USI |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers

and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.

Result (upper chinle non-mixing zone uranium)

| Gen | eral | Stat | tist | ics |
|-----|------|------|------|-----|
| | | | | |

| Total Number of Observations | 166 | Number of Missing Observations | 0 |
|---------------------------------|-----------|--------------------------------|---------|
| Number of Distinct Observations | 78 | | |
| Number of Detects | 140 | Number of Non-Detects | 26 |
| Number of Distinct Detects | 77 | Number of Distinct Non-Detects | 2 |
| Minimum Detect | 7.0000E-4 | Minimum Non-Detect | 0.00848 |
| Maximum Detect | 0.361 | Maximum Non-Detect | 0.01 |
| Variance Detected | 0.00152 | Percent Non-Detects | 15.66% |
| Mean Detected | 0.0361 | SD Detected | 0.039 |
| Mean of Detected Logged Data | -3.68 | SD of Detected Logged Data | 0.893 |
| | | | |

Critical Values for Background Threshold Values (BTVs)

Tolerance Factor K (For UTL) 1.856 d2max (for USL) 3.375

Normal GOF Test on Detects Only

| Shapiro Wilk Test Statistic | 0.63 | Normal GOF Test on Detected Observations Only |
|------------------------------|--------|---|
| 5% Shapiro Wilk P Value | 0 | Data Not Normal at 5% Significance Level |
| Lilliefors Test Statistic | 0.235 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value | 0.0753 | Data Not Normal at 5% Significance Level |

Data Not Normal at 5% Significance Level

Kaplan Meier (KM) Background Statistics Assuming Normal Distribution

| KM Mean | 0.031 | KM SD | 0.0376 |
|-----------------------|--------|-----------------------|--------|
| 95% UTL95% Coverage | 0.101 | 95% KM UPL (t) | 0.0934 |
| 90% KM Percentile (z) | 0.0792 | 95% KM Percentile (z) | 0.0928 |
| 99% KM Percentile (z) | 0.118 | 95% KM USL | 0.158 |

DL/2 Substitution Background Statistics Assuming Normal Distribution

| Mean | 0.0311 | SD | 0.0376 |
|---------------------|--------|--------------------|--------|
| 95% UTL95% Coverage | 0.101 | 95% UPL (t) | 0.0935 |
| 90% Percentile (z) | 0.0793 | 95% Percentile (z) | 0.093 |
| 99% Percentile (z) | 0.119 | 95% USL | 0.158 |

DL/2 is not a recommended method. DL/2 provided for comparisons and historical reasons

Gamma GOF Tests on Detected Observations Only

| A-D Test Statistic | 2.388 | Anderson-Darling GOF Test |
|-----------------------|--------|---|
| 5% A-D Critical Value | 0.77 | Data Not Gamma Distributed at 5% Significance Level |
| K-S Test Statistic | 0.135 | Kolmogorov-Smirnov GOF |
| 5% K-S Critical Value | 0.0806 | Data Not Gamma Distributed at 5% Significance Level |
| | | |

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

| 1.515 | k star (bias corrected MLE) | 1.543 | k hat (MLE) |
|--------|---------------------------------|--------|-----------------|
| 0.0238 | Theta star (bias corrected MLE) | 0.0234 | Theta hat (MLE) |
| 424.2 | nu star (bias corrected) | 432.1 | nu hat (MLE) |

MLE Mean (bias corrected) 0.0361

MLE Sd (bias corrected) 0.0293 95% Percentile of Chisquare (2kstar) 7.866

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

| 0.032 | Mean | Minimum 7.0000E-4 | | |
|--------|---------------------------------|-------------------|--------------------------------------|--|
| 0.0252 | Median | 0.361 | Maximum | |
| 1.158 | CV | 0.037 | SD | |
| 1.429 | k star (bias corrected MLE) | 1.451 | k hat (MLE) | |
| 0.0224 | Theta star (bias corrected MLE) | 0.022 | Theta hat (MLE) | |
| 474.5 | nu star (bias corrected) | 481.9 | nu hat (MLE) | |
| 0.0268 | MLE Sd (bias corrected) | 0.032 | MLE Mean (bias corrected) | |
| 0.0674 | 90% Percentile | 7.568 | 95% Percentile of Chisquare (2kstar) | |
| 0.124 | 99% Percentile | 0.0847 | 95% Percentile | |

The following statistics are computed using Gamma ROS Statistics on Imputed Data

Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods

| | WH | HW | | WH | HW |
|---|--------|--------|-----------------------|--------|--------|
| 95% Approx. Gamma UTL with 95% Coverage | 0.0924 | 0.0946 | 95% Approx. Gamma UPL | 0.0824 | 0.0835 |
| 95% Gamma USL | 0.199 | 0.222 | | | |

Estimates of Gamma Parameters using KM Estimates

| Mean (KM) | 0.031 | SD (KM) | 0.0376 |
|---------------------------|---------|---------------------------|---------|
| Variance (KM) | 0.00141 | SE of Mean (KM) | 0.00293 |
| k hat (KM) | 0.682 | k star (KM) | 0.674 |
| nu hat (KM) | 226.5 | nu star (KM) | 223.8 |
| theta hat (KM) | 0.0455 | theta star (KM) | 0.046 |
| 80% gamma percentile (KM) | 0.0511 | 90% gamma percentile (KM) | 0.0786 |
| 95% gamma percentile (KM) | 0.107 | 99% gamma percentile (KM) | 0.175 |

The following statistics are computed using gamma distribution and KM estimates

Upper Limits using Wilson Hilferty (WH) and Hawkins Wixley (HW) Methods

| | WH | HW | | WH | HW |
|---|--------|--------|-----------------------|--------|--------|
| 95% Approx. Gamma UTL with 95% Coverage | 0.0998 | 0.105 | 95% Approx. Gamma UPL | 0.0879 | 0.0914 |
| 95% KM Gamma Percentile | 0.087 | 0.0905 | 95% Gamma USL | 0.231 | 0.274 |

Lognormal GOF Test on Detected Observations Only

| Shapiro Wilk Approximate Test Statistic 0.954 | Shapiro Wilk GOF Test |
|---|---|
| 5% Shapiro Wilk P Value 5.7256E-4 | Data Not Lognormal at 5% Significance Level |
| Lilliefors Test Statistic 0.134 | Lilliefors GOF Test |
| 5% Lilliefors Critical Value 0.0753 | Data Not Lognormal at 5% Significance Level |

Data Not Lognormal at 5% Significance Level

Background Lognormal ROS Statistics Assuming Lognormal Distribution Using Imputed Non-Detects

| Mean in Original Scale | 0.0313 | Mean in Log Scale | -3.93 |
|-----------------------------------|--------|-------------------------|-------|
| SD in Original Scale | 0.0375 | SD in Log Scale | 1.017 |
| 95% UTL95% Coverage | 0.13 | 95% BCA UTL95% Coverage | 0.117 |
| 95% Bootstrap (%) UTL95% Coverage | 0.121 | 95% UPL (t) | 0.106 |

Attachment 7: Statistical Calculations

| 90% Percentile (z) | 0.0724 | 95% Percentile (z) | 0.105 |
|---------------------------------|----------------------------|------------------------------------|--------|
| 99% Percentile (z) | 0.21 | 95% USL | 0.609 |
| | | | |
| Statistics using KM estimates o | n Logged Data and Assumin | g Lognormal Distribution | |
| KM Mean of Logged Data | -4.001 | 95% KM UTL (Lognormal)95% Coverage | 0.151 |
| KM SD of Logged Data | 1.138 | 95% KM UPL (Lognormal) | 0.121 |
| 95% KM Percentile Lognormal (z) | 0.119 | 95% KM USL (Lognormal) | 0.853 |
| | | | |
| Background DL/2 St | atistics Assuming Lognorma | al Distribution | |
| Mean in Original Scale | 0.0311 | Mean in Log Scale | -3.948 |
| SD in Original Scale | 0.0376 | SD in Log Scale | 1.03 |
| 95% UTL95% Coverage | 0.13 | 95% UPL (t) | 0.107 |

95% Percentile (z)

95% USL

0.105

0.624

DL/2 is not a Recommended Method. DL/2 provided for comparisons and historical reasons.

0.212

90% Percentile (z) 0.0722

99% Percentile (z)

Nonparametric Distribution Free Background Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Upper Limits for BTVs(no distinction made between detects and nondetects)

| Order of Statistic, r | 162 | 95% UTL with95% Coverage | 0.124 |
|--|-------|---|--------|
| Approx, f used to compute achieved CC | 1.705 | Approximate Actual Confidence Coefficient achieved by UTL | 0.922 |
| Approximate Sample Size needed to achieve specified CC | 181 | 95% UPL | 0.0946 |
| 95% USL | 0.361 | 95% KM Chebyshev UPL | 0.195 |

Note: The use of USL tends to yield a conservative estimate of BTV, especially when the sample size starts exceeding 20. Therefore, one may use USL to estimate a BTV only when the data set represents a background data set free of outliers and consists of observations collected from clean unimpacted locations.

The use of USL tends to provide a balance between false positives and false negatives provided the data represents a background data set and when many onsite observations need to be compared with the BTV.